

# **sopras** Everything for welding



**Product catalogue 2017**

## INDEX

### ELECTRODES ..... 3-6

Equipment for heating and drying the coated electrodes.....	3
Electrodes for normal mild and carbon structural steels.....	4
Electrodes for stainless steel .....	4
Table of packaging and weight of electrodes .....	5
Table of classification and typical chemical composition .....	6

### WELDING WIRES MIG/MAG, TIG, SUBMERGED ARC, STRIPS FOR PLATING ..... 8-13

Wires for welding carbon steels - spools .....	8
Wires for welding carbon steels - barrels.....	8
Wires for welding carbon steels - rods.....	8
Spools for portable machines.....	8
Spools for MIG welding - low alloy wires, filled.....	9
Rods for TIG welding – low alloy wires.....	9
Wires and fluxes for welding SAW .....	9
Wires for MIG welding - cored wires.....	9
Wires for MIG welding and submerged arc.....	10
Flux for welding stainless steel .....	10
Stainless steel spools - 5 kg.....	10
Stainless steel spools - 1 kg.....	10
Stainless steel rods.....	10
Stainless steel strips.....	11
Flux for the plating tapes .....	11
Stainless steel cored wires with high content of nickel.....	11
TIF - coated stainless steel rods for TIG welding.....	11
Special stainless steel.....	12
Wires for welding galvanized materials .....	12
Welding wires for cast iron.....	12
Welding wires for hardfacing .....	12
Table of classification and typical chemical composition - special wires.....	13

### NON-FERROUS METALS AND THEIR ALLOYS ..... 15-19

Aluminium welding wires for MIG.....	15
Aluminium welding wires for TIG.....	15
Titanium welding wires for MIG.....	15
Titanium welding rods for TIG.....	15
Magnesium welding rods for TIG.....	15
High nickel alloys .....	16
Extra alloy materials.....	17
Bronze and copper welding wires and copper alloys .....	18
Cobalt based alloys (Stellite), original Weartech .....	18
PRAXAIR – TAFA .....	18
Powder for metallization.....	18
Wires for metal-coating and accessories.....	18
Table of classification and typical chemical composition - non-ferrous metals, alloys.....	19

### INDIVIDUAL PROTECTIVE EQUIPMENT ..... 21-26

Protective helmets with autodarkening filters .....	21,22
Protective welding helmets .....	23
Welding glass.....	23
Protective welding tents .....	24
PVC tent .....	24
PVC strips .....	24
Panels .....	24
OMNIUM .....	24
Winding machine for tents.....	24
Protective glasses.....	25
Protective hoods .....	25
Protective coatings (Aprons, muffs, boots).....	25
Protective fabric Hotstop.....	26
Protective bolster Hotstop.....	26
Knees protection Hotstop.....	26

### ACCESSORIES ..... 28-39

Tungsten electrodes .....	28
Grinders for tungsten electrodes.....	28
MIG welding torches and spare parts .....	29
TIG Welding torches and spare parts .....	29
Gas saver.....	29
Electrodes for gouging .....	29
Torch for gouging electrodes.....	29
High flexible copper cables .....	30
Cable Extraflex .....	30
Plugs.....	30
Connectors.....	30
Complete welding kit.....	30
Welding brush (4 lines) .....	30
Welding hammer.....	30
Electrode holders .....	31
Cable socket - screwed .....	31
Ground clamps.....	32
Swivel ground clamp, fixed .....	32
Tanimark marker .....	33
Sidermark marker .....	33
Talc (Steatite).....	33
Molybdene detector (Test for stainless steel) .....	33
Anti adhesive products for welding.....	34
Liquid Sidercooling .....	34
Siderzink – cold galvanizing spray .....	34
Rivel/Superball – air leakage detector.....	34
Penetration solutions.....	35
Liquid for magnetoscopic control .....	35
Pickling paste and gel for stainless steel - Antiox .....	35
Passivation of stainless steel - Passix.....	35
Polish paste for stainless steel - Polish .....	35
Pickling paste for aluminium - Antiox Al .....	35
Bloxide - protective measure against corrosion.....	36
Temperature indicators .....	36
Measuring.....	36
Flashlight for weld inspection .....	36
Pocket microscope.....	36
Portable electrode heater.....	37
Electrode dryer.....	37
Professional infrared thermometer .....	37
Inspection mirrors.....	37
Soluble paper Dissolvo .....	38
Stuffing system for welding tubes .....	38
Baloon valves for welding .....	38
Ceramic pads.....	39
Aluminium adhesive tape .....	39

### RODS FOR OXY-ACETYLENE WELDING AND ALLOYS FOR THERMOHYDRAULICS ..... 41-43

Rods for hard soldering .....	41
Table of classification and typical chemical composition.....	41
Rods for oxy-acetylene soldering .....	41
Phosphorous rods for hard soldering.....	41
Spools for soft soldering.....	42
Rods for soft soldering .....	42
Antioxidative agent for hard soldering.....	42
Antioxidative paste for tin alloys soldering .....	42
Rubber hoses for technical gases.....	43
Rubber hoses for GPL-MPS-GAS (Pb).....	43
Rubber hoses - air .....	43
PVC transparent reinforced hose .....	43
Hose winding .....	43
Safety ring clips for hoses.....	43
Lighter .....	43

# ELECTRODES

## EQUIPMENT FOR HEATING AND DRYING THE COATED ELECTRODES



### P7 – Electrode heater – portable

A practical heater, simple, rugged, ideal for on-site applications; it has a neon light power indicator and fixed thermostat. This oven should be used in inclined positions; it comes complete with ergonomic carrying handles. Not thermally insulated container.



### P8/P8T – P15/P15T – Electrode heater – portable

Smaller dimension and capacity of electrodes, with uniform heating thanks to the vertically positioned heating element. Easily removable basket, an adjustable thermostat and a two-chamber thermal insulation of the container. It has a neon light power indicator, comes with an ergonomic carrying handle. A thermometer on request - see table.



### P16 – Electrode heater – portable

Ideal for heating of coated stainless steel electrodes thanks to its power and size with the horizontal operating position. An adjustable thermostat, hinged lid. It has a neon light power indicator, comes with an ergonomic carrying handle. Dual voltage. Thermally insulated container.



### B1 - Semi-portable holding and reconditioning Rod Oven

A portable static reconditioning and holding oven, adjustable digital thermostat, light and compact, ideal for on site jobs and for small batches. High-density insulation, full calibration certificate.



### C1 – Digitally Controlled Drying Rod Oven

A portable static oven, for holding and reconditioning electrodes, high-density insulation, adjustable digital thermostat, full calibration certificate.



Type	Electrodes capacity (kg)	Temperature (°C)	Thermometer	Voltage (V)	Output (kW)	Dimensions (mm)	Code
P7	9	110		230 AC	0,15	121x115x630	SFORC-P07-220
				24/85 DC			SFORC-P07
P8	7	adjustable up to 190		230 AC	0,275	730x730x470	SFORC-P08-220
				24/85 DC			SFORC-P08
P8T			yes	230 AC			SFORC-P08T-220
				24/85 DC			SFORC-P08T
P15	11			230 AC		110x130x460	SFORC-P015-220
				24/85 DC			SFORC-P15
P15T			yes	230 AC			SFORC-P15T-220
				24/85 DC			SFORC-P15T
P16	14	adjustable up to 320		230 AC	0,30	175x260x610	SFORC-P16-220
B1	50	adjustable up to 400	yes		0,75	330x550x410	SFORC-B01-220
C1	150		yes		2,25	530x620x620	SFORC-C01-220
Thermometer for P8 and P15							SFTEC-P08

**Electrodes for normal mild and carbon structural steels**

Diameter in mm	1,5	2	2,5	3,25	3,25	4	4	5
Length in mm	300	300	300	350	450	350	450	450

**Rutile electrodes - E6013**

START		✓	✓		✓		✓	
BEST			✓					
SIDER F		✓	✓	✓	✓		✓	✓

SIDER F – is a medium rutile coated electrode suitable for welding low alloy steels. It is used for repairing steel structures and constructions.

Chemical composition of the base material: C=0.10 Mn=0.60  
 Typical mechanical properties: R=500-540 MpA  
 R=430 MpA

Welding position: applicable for all welding positions  
 Coating: medium rutile  
 Classification: AWS A5.1 E6013  
 DIN 1913: E4322RR8

**Basic electrodes - E7018**

SIDER 50		✓	✓		✓		✓	✓
SIDER A		✓	✓	✓	✓		✓	✓

SIDER A – is basic coated electrode for universal welding of steels with tensile strength up to 550 Mpa, where very high mechanical properties are required (pressure containers, building constructions etc.)

Chemical composition of the base material: C=0.10 Mn=1.20 Si=0.50  
 Typical mechanical properties: R=510-550 MpA  
 R=410-470 MpA

Welding position: applicable for all welding positions  
 Coating: basic  
 Classification: AWS A5.1 E7018  
 DIN 1913: E5153B10

**Cellulose electrodes - E6010**

SIDER 6010			✓		✓	✓		
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**Steel electrodes CORTEN - E8018-W2**

SIDER 6010			✓		✓		✓	
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**Special electrodes**

		Diameter in mm	1,5	2	2,5	2,5	3,25	3,25	4	4
		Length in mm	250	300	300	350	350	450	350	450
Stainless steel	SIDERINOX 307				✓		✓			
	SIDERINOX 308 LC			✓	✓		✓		✓	
	SIDERINOX 308 LCB				✓		✓		✓	
	SIDERINOX 309/LC			✓	✓		✓		✓	
	SIDERINOX 309/LCB				✓		✓		✓	
	SIDERINOX 309/LMo				✓		✓		✓	
	SIDERINOX 310				✓		✓		✓	
	SIDERINOX 316/LC	✓	✓	✓		✓		✓		✓
	SIDERINOX 316/LCB				✓		✓		✓	
	SIDERINOX 347				✓		✓		✓	
Other steel	SIDERINOX 29/9			✓	✓		✓		✓	
	SIDERGHIS Ni			✓	✓		✓		✓	
Cast iron	SIDERGHIS Ni			✓	✓		✓		✓	
	SIDERGHIS NiFe				✓		✓		✓	
Aluminium	SIDERAI 5 Si					✓	✓		✓	
Hardfacing	SIDER 350 FB				✓			✓		✓
	SIDER 600				✓			✓		✓
Copper Alloys	SIDERBRONZE				✓		✓			

**Table of packaging and weight of electrodes**

	ø mm	length mm	PACKAGE		CARDBOARD			code
			no. pcs	weight kg	no. packages	no. pcs	weight kg	
START	2,00	300	400	4,20	3	1200	12,60	ASTN
	2,50	300	275	4,50	3	825	13,50	
	3,25	450	125	5,70	3	375	17,10	
	4,00	450	90	6,00	3	270	18,00	
SIDER F	1,50	300	500	3,80	3	1500	11,40	ASFN
	2,00	300	400	4,20	3	1200	12,60	
	2,50	300	275	4,50	3	825	13,50	
	3,25	350	145	5,80	4	580	23,20	
	3,25	450	125	5,80	3	375	17,40	
	4,00	450	100	5,00	3	300	15,00	
SIDER A	2,50	300	200	4,00	4	800	16,00	ASAN
	3,25	450	120	5,20	3	360	15,60	
	4,00	450	80	5,50	3	240	16,50	
	5,00	450	50	5,80	3	150	17,40	
SIDER 50	2,00	300	300	4,00	4	1200	16,00	AS50
	2,50	300	200	4,00	4	800	16,00	
	3,25	450	110	5,20	3	330	15,60	
	4,00	450	80	5,50	3	240	16,50	
SIDER 6010	5,00	450	50	5,80	3	150	17,40	AE6010
	2,50	300	280	4,00	4	1120	16,00	
	3,25	350	175	4,90	4	700	19,60	
COR 58	4,00	350	125	5,20	4	500	20,80	ACOR
	2,50	350	220	4,80	4	880	19,20	
	3,25	450	125	6,00	3	375	18,00	
SIDERINOX 308 / LC	4,00	450	35	6,10	3	255	18,30	CD08
	2,50	350	70	5,0	6	420	30	
	4	350	45	2,4	6	270	14,4	
SIDERINOX 316 / LC	1,50	300	250	1,95	6	1500	11,70	CD16
	2,00	300	167	2,00	6	1002	12,00	
	2,50	300	115	2,10	6	690	12,60	
	3,25	350	67	2,45	6	402	14,70	
SIDERINOX 347	4,00	350	45	2,40	6	270	14,40	CD34
	2,50	300	105	2,00	6	630	12,00	
	3,25	350	64	2,25	6	384	13,50	
SIDERINOX 309 / LC	4,00	350	42	2,25	6	252	13,50	CD09
	2,00	300	179	2,00	6	1074	12,00	
	2,50	300	110	2,00	6	660	12,00	
SIDERINOX 309 LMo	3,25	350	64	2,20	6	384	13,20	CD09M
	4,00	350	47	2,50	6	282	15,00	
	2,50	300	108	2,00	6	648	12,00	
SIDERINOX 310	3,20	350	71	2,50	6	426	15,00	CD10
	4,00	350	41	2,25	6	246	13,50	
	2,50	300	110	2,00	6	660	12,00	
SIDERINOX 29/9	3,25	350	70	2,50	6	420	15,00	CC29
	4,00	350	45	2,50	6	270	15,00	
	2,00	300	165	2,00	6	990	12,00	
SIDERGHIS Ni	2,50	300	105	1,95	6	630	11,70	CBNI
	3,25	350	65	2,40	6	390	14,40	
	4,00	350	41	2,30	6	246	13,80	
SIDERGHIS NiFe	2,00	300	200	2,25	6	1200	13,50	CBNF
	2,50	300	130	2,35	6	780	14,10	
	3,25	350	80	2,65	6	480	15,90	
SIDERAL 5 Si	4,00	350	52	2,65	6	312	15,90	CAL5
	2,50	300	140	2,25	6	840	13,50	
	3,25	350	90	2,75	6	540	16,50	
SIDERBRONZE	4,00	350	56	3,00	6	336	18,00	CQAO
	2,50	350	220	2,00	4	880	8,00	
	3,25	350	150	2,00	4	600	8,00	
SIDER 350 FB- SIDER 600	2,50	300	130	2,25	6	780	13,50	CE35-CE60
	3,25	350	92	2,75	6	552	16,50	
	2,50	300	225	3,80	4	900	15,20	
SIDER 2209	3,25	450	130/140	5,9/6	3	420	17,70	CD2209
	4,00	450	85/90	5,9/6	3	255/270	17,70	
	2,5	300	112	2,0	6	675	12	
SIDER 2595 B	3,25	350	67	2,25	6	405	13,5	CD2595
	4,00	350	48	2,50	6	288	15,00	
	2,50	300	111	2,00	6	666	12,00	
	3,25	350	64	2,25	6	384	13,50	
	4,00	350	42	2,25	6	252	13,50	



**Table of classification and typical chemical composition – Special electrodes****Electrodes for stainless steel**

	AWS A5.4	DIN 8556	EN 1600	C	Ni	Cr	Mn	Si	Mo	Rm MPa	Re MPa	A5d %
SIDERINOX 308/LC	E308L-17	E19.9LR23	E199LR32	0,02	9,5	19,5	0,90	0,80	-	640	>420	35
SIDERINOX 308LB	E308/L-15	E19.9LB20	E199LB42	0,04	9,5	19,5	1,60	0,40	-	540 - 610	>420	35
SIDERINOX 309/LC	E309/L-16	E23.12LR26	E2312LR32	0,03	12,0	23,0	0,80	0,80	-	540 - 650	>460	35
SIDERINOX 309LMO	E309LMO-16	-	E23122LR32	0,03	12,50	23,0	1,30	0,85	2,5	> 620	> 520	30
SIDERINOX 310	E310-16	E25.20R26	E2520R32	0,12	22,0	27,0	2,00	0,60	-	> 580	> 400	35
SIDERINOX 316/LC	E316L-17	E19.12.3LR26	E19123LR32	0,03	11,5	19,5	0,90	0,80	2,6	560 - 650	>460	35
SIDERINOX 316LB	E316-L15	E19.12.3LB26	E19123LB42	0,04	12,0	19,5	1,60	0,40	2,7	540 - 650	>460	35
SIDERINOX 307	E307-16	E18.8MnR26	E188MnR32	0,12	8,0	18,0	6-7	0,80	-	> 680	> 400	35
SIDERINOX 347	E347-16	E199NbR23	E199NbR32	0,05	10,0	20,0	1,1	0,85	-	> 580	> 420	30
SIDERINOX 29/9	(E312-16)	E29.9R26	E299R32	0,10	9-10	28-30	1,30	1,00	-	700 - 850	> 580	20
SIDER 2209	E2209L-16	E2293LR23	E2293NLR12	0,02	9	22,5	1,1	0,9	3,2	> 690	> 540	30
SIDER 2595B	E2595-15	E22123LR23	E2594NLB42	0,04	9	25,0	1,6	0,9	3,5	> 800	> 630	22

**Electrodes for cast iron**

	AWS A5.15	DIN 8573	C	Ni	Cr	Mn	Si	Fe	Rm MPa
SIDERGHIS Ni	ENi-CI	ENiBG11	1,00	rest	-	1,00	2,00	2,00	> 400
SIDERGHIS NiFe	ENiFe-CI	ENiBG-12	1,00	58-60	-	< 1,00	1,20	rest	> 300

**Electrodes for Aluminium**

	AWS A5.3	DIN 1736	Al	Si	Fe	Mn	Rm MPa	A5d %
SIDERAL 5 Si	E4043	EL-AISI5	rest	5,0	0,5	0,5	160	> 15

**Electrodes for hardfacing**

	AWS	DIN 8555	C	Cr	Mn	Si	Mo	W	Fe	Ni	Co	Cu	Sn	Nb	HB	Rm MPa	A5d %
SIDER 350 FB		E1-UM-350	0,25	0,35	2,80	0,70	-	-	-	-	-	-	-	-	350	-	-
SIDER 600		E2-UM-60	0,70	2,50	3,00	0,80	-	-	-	-	-	-	-	-	600	-	-

**Electrodes for nickel**

	AWS	DIN 8555	C	Cr	Mn	Si	Mo	W	Fe	Ni	Co	Cu	Sn	Nb	HB	Rm MPa	A5d %
HCS-CO	A5.11 ENiCrMo5	E23-UM250CKT2	<0,10	16,00	-	0,50	16,50	3,70	3,00	rest	3,50	-	-	-	-	-	-
SIDER 182 HR	A5.11 ENiCrFe3		0,10	15	8	0,5	-	-	<10	rest	-	-	-	1,8	-	>600	>30

**Electrodes for bronze**

	AWS	DIN 8555	C	Cr	Mn	Si	Mo	W	Fe	Ni	Co	Cu	Sn	Nb	HB	Rm MPa	A5d %
SIDER BRONZE	A5.6ECuSn-C		-	-	0,60	-	-	-	-	-	-	rest	7,00	-	-	-	>20

**WELDING WIRES FOR  
MIG/MAG, TIG, SUBMERGED ARC,  
STRIPS FOR PLATING**

**Wires for welding carbon steels - spools**

SG2 AWS A5.18 ER70S-6	Ø mm	0,6	0,8	1	1,2	1,6	code
Metal (plastic) spool 15 kg – layer on layer			✓	✓	✓		BDO2

Plastic spool 5 kg – layer on layer	code
SOGESFIL 14	B14R

SG3 AWS A5.18 ER70S-6	code
Metal spool 15 kg – layer on layer without internal reduction	BG9S-...
Adapter for spool 15 kg	SADA-TT

**Wires for welding carbon steels - barrels**

SG2 AWS A5.18 ER70S-6	Ø mm	0,8	1	1,2	code
Barrel - 250 kg		✓	✓	✓	BF02

	code
Accessories for barrels 250 kg - cover, Ø 520 mm	TCAM-520
Accessories for barrels 250 kg - bowden, Ø 5,5mm; length 3,5m	TCGU-553

**Wires for welding carbon steels - rods**

SG-1 AWS A5.18 ER70S-3	1,2	1,6	2,0	2,4	3,2	code
Rods SG-1,1 package = 1000mm x 5kg	✓	✓	✓	✓	✓	EFSG
SG-2 AWS A5.18 ER70S-6	1,2	1,6	2,0	2,4	3,2	code
Rods SG-2,1 package = 1000mm x 5kg	✓	✓	✓	✓	✓	EFSG-2

**Spools for portable machines**

	Ø mm	0,6	0,8	0,9	code
SOGESFIL 14 for iron (1 spool = 1 kg)		✓	✓		B14B
SIDERINOX MIG for stainless steel (1 spool = 1 kg)			✓		EBO8
SIDER-ALLUMIG for aluminium (1 spool = 0,5 kg)			✓		EBAL
SOGESFIL 14 CW - cored wire for welding steels without inert gas (1 spool = 1 kg)				✓	EBCW
SOGESFIL 14 CW - cored wire for welding steels without inert gas (1 spool = 4,5 kg)				✓	EBCW K45

**Spools for MIG welding - low alloy wires, filled**

Metal spool 15 kg	AWS A5 . 28	Ø mm	1,0	1,2	code
SIDER SGMo	ER 70 S-A1			✓	EFMO
SIDER SGCRCMo1	ER 80 S-B2			✓	EFM1
SIDER SGCRCMo2	ER 90 S-B3			✓	EFM2
GTA (steel T1 a HARDOX)	ER 110 S-G		material on request		BGTS
GTH (steel T1 a HARDOX)	ER 100 S-G		material on request		BGTH
GH2 (steel CORTEN)	ER 80 S-G		material on request		BGH2

Inert gas - Argon

**Rods for TIG welding – low alloy wires**

Length 1000 mm - 1 package = 5 kg								
	AWS A5 . 28	Ø mm	1,2	1,6	2	2,4	3,2	code
SGMo	ER 70 S-A1				✓	✓	✓	EFSM-
SGCrMo 1	ER 80 S-B2					✓		EFM1-
SGCrMo 2	ER 90 S-B3					✓		EFM2T-

**Typical chemical composition**

	Fe	C	Mn	Si	Cr	Ni	Mo	V	Cu
SG1	rest	0,07	1,15	0,65	-	-	-	-	-
SG2	rest	0,08	1,45	0,85	-	-	-	-	-
SG3	rest	0,08	1,65	0,95	-	-	-	-	-

SIDER SGMo	rest	0,09	1,20	0,60	<0,15	<0,15	0,50	-	<0,25
SIDER SGCRCMo1	rest	0,08	0,60	0,55	1,30	<0,20	0,55	-	0,30
SIDER SGCRCMo2	rest	0,08	0,60	0,50	2,40	<0,20	1,00	-	0,30
GTA (steel T1 and HARDOX)	rest	0,08 - 0,11	1,60 - 1,80	0,50 - 0,70	0,30 - 0,40	1,40 - 1,60	0,24 - 0,30	0,08 - 0,13	0,35
GTH (steel T1 and HARDOX)	rest	0,08 - 0,10	1,60 - 1,80	0,60 - 0,80	0,55 - 0,65	0,50 - 0,65	0,25 - 0,30	-	0,35
GH2 (steel CORTEN)	rest	0,06 - 0,10	1,30 - 1,60	0,70 - 1,00	0,25 - 0,40	0,70 - 0,85	0,10	-	0,35 - 0,50

**Wires and fluxes for welding SAW**
**Wires under flux**

Metal spool 27 kg	Type	Ø mm	2,38	3,17	3,97	code
Wire S1	AWS A5.17 EL12		material on request			BS1I-
Wire S2	AWS A5.17 EM12K		material on request			BS2I-
Wire S3Si	AWS A5.17 EH12K		material on request			BS3S-

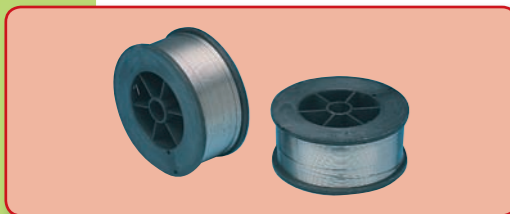
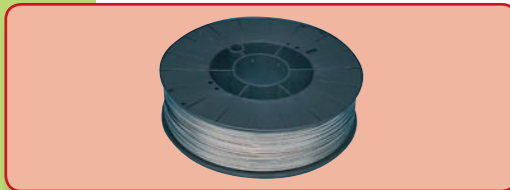
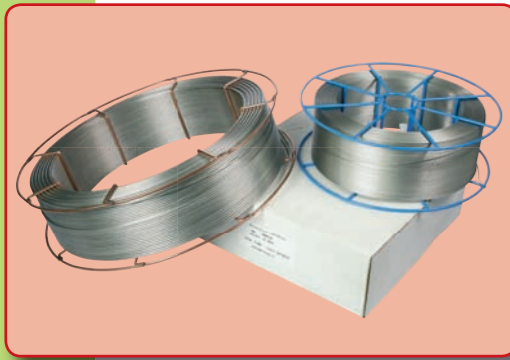
**Fluxes**

Packing = 25 kg	Type	code
180F rutile	EN 760 S A AR 1 87 AC	material on request
160F basic	EN 760 S A FB 1 66 AC	material on request
188F semibasic	EN 756 S 35 2 AB S1	material on request

**Cored wire for carbon steel - KOBELCO**

Plastic spool 15 kg	Type	AWS	1,2	1,6	code
FAMILIARC DW-A50	With slag	A5.20 E71T-1M	✓	✓	EGMX71 - ...KB
FAMILIARC MX-A55S	Without slag	A5.20 E70C-6M	✓	✓	EGMC70 - ...KB
FAMILIARC DW-A51B	Basic	A5.20 E71T-5M-J	✓	✓	EGMXTS - ...KB
FAMILIARC DW-588	Steel Corten	A5.29 E81T1-W2C	✓	-	EGMXH2 - ...KB
FAMILIARC DW-A55E	With slag	A5.20 E71T-9M-J	✓	✓	EGMX71J - ...KB
TRUSTARC MX-A55Ni1	Without slag	A5.28 E80C-GM	✓	✓	EGMC55Ni-...KB





Wires for MIG welding and submerged arc

Ø mm	METAL SPOOL 15 KG				PLASTIC SPOOL 25 KG				code
	0,8	1	1,2	1,6	2	2,4	3,2	4	
SIDER 307Si	✓	✓	✓	✓	material on request				E07N
SIDER 308L					material on request				E08L
SIDER 308LSi	✓	✓	✓	✓					E08S
SIDER 309L					material on request				E09L
SIDER 309LSi	✓	✓	✓	✓					E09S
SIDER 309LMo	✓	✓	✓	✓	material on request				E09M
SIDER 310	✓	✓	✓	✓					E10N
SIDER312	✓	✓	✓	✓					E12L
SIDER 316L					material on request				E16L
SIDER 316LSi	✓	✓	✓	✓					E16S
SIDER 347					material on request				E34L
SIDER 347Si	✓	✓	✓	✓					E34S
SIDER 410									E410
SIDER 430									E430
SIDER 4122									E4122
SIDER 2209 (type Duplex)	material on request				material on request				E2209
SIDER 2594 (type Super-Duplex)									E25104F

Available also in 250 kg barrels.

Flux for welding stainless steel

			code
SIDER FLUX F500 (for stainless steel)	EN 760 SA FB 2 53 AC	✓	TFLU-F500

Stainless steel spools - 5 kg

Ø mm	0,6	0,8	1	code
SIDER 308LSi	✓	✓	✓	E08C
SIDER 316LSi	✓	✓	✓	E16C
SIDER 347Si	✓	✓	✓	E47C

Stainless steel spools - 1 kg

Ø mm	0,8	1	1,2	code
SIDER 308LSi	✓	✓	material on request	EB08
SIDER 309LSi	✓	✓	material on request	EB09
SIDER 316LSi	✓	✓	material on request	EB16
SIDER 347Si	✓	✓	material on request	EB47

Stainless steel rods

Ø mm	Length 1000mm								code
	1	1,2	1,6	2	2,4	3,2	4		
SIDER 308LT (LSi)	✓	✓	✓	✓	✓	✓	✓	E08T	
SIDER 309 LT (LSi)	✓	✓	✓	✓	✓	✓	✓	E09T	
SIDER 309 LMoT			✓	✓	✓	✓	✓	E09MT	
SIDER 310T		✓	✓	✓	✓	✓	✓	E10T	
SIDER 312T		✓	✓	✓	✓			E12T	
SIDER 316LT (LSi)	✓	✓	✓	✓	✓	✓	✓	E16T	
SIDER 347LT (Si)	✓	✓	✓	✓	✓	✓	✓	E34T	
SIDER 410T								E41T	
SIDER 2209T (type Duplex)	material on request							E2209T	
SIDER 2594T (type Super-Duplex)								E25104T	

Stainless steel strips

UNI EN ISO 14343	Typical chemical composition										code
	Sez. B (AWS)	Sez. A (EN 12072)	C	Cr	Ni	Mo	Mn	Si	Nb	Cu	
SIDER 308L	EQ308L	19 9 L	0,02	20	9,80	0,20	1,80	0,45	-	0,10	F308-...
SIDER 309L	EQ309L	23 12 L	0,03	24	13	0,20	1,80	0,45	-	0,20	F309-...
SIDER 309LMo	(EQ309LMo)	23 12 2 L	0,03	24	13	2,50	1,80	0,45	-	0,20	F309M-...
SIDER 309LNb	(EQ309LNb)	-	0,03	24	13	2,50	1,80	0,45	-	0,20	F309NB-...
SIDER 316L	EQ316L	19 12 3 L	0,02	18,50	12,50	2,60	1,40	0,45	-	0,20	F316-...
SIDER 347L	EQ347L	-	0,05	19,50	9,80	-	1,60	0,45	0,60	-	F347-...

Available in diameters: 30x0,5; 60x0,5; 90x0,5

Flux for the plating tapes

Flux for stainless steel	code
material on request	TFLU-...

Stainless steel cored wires with high content of nickel

	Ø mm	Spools 12,5 kg				code
		0,9	1	1,2	1,6	
FCW 308 LT	E308LT 0-1/-4	✓	✓	✓	✓	EW08
FCW 309 LT	E309LT 0-1/-4		✓	✓		EW09
FCW 316 LT	E316LT 0-1/-4		✓	✓	✓	EW16

Stainless steel cored wires with high content of nickel - original KOBELCO

AWS A5.22		Ø 1,2	Ø 1,6	code
PREMIARC DW 308L	E308LT0-1/-4	✓	✓	EW08-...KB
PREMIARC DW 308LP	E308LT1-1/-4	✓	✓	EW08LP-...KB
PREMIARC DW 309L	E309LT0-1/-4	✓	✓	EW09-...KB
PREMIARC DW 309LP	E309LT1-1/-4	✓	✓	EW09LP-...KB
PREMIARC DW 316L	E316LT0-1/-4	✓	✓	EW16-...KB
PREMIARC DW 316LP	E316LT1-1/-4	✓	✓	EW16LP-...KB
PREMIARC DW 329A	E2209T0-1/-4	✓	✓	EW29J3L-...KB
PREMIARC DW 2594	E2594T-1/-4	✓	✓	EW29J4L-...KB
PREMIARC DW 309MoL	E309LMoT0-1/-4	✓	✓	EW9M-...KB
PREMIARC DW 310	E310T0-1/-4	✓	✓	EW10-...KB
PREMIARC DW 312	E312T0-4	✓	✓	EW12-...KB
PREMIARC DW 308H	E308HT1-1/-4	✓	✓	EW08H-...KB
PREMIARC DW 347H	E347T1-1/-4	✓	✓	EW47H-...KB

EN ISO 17633-A		Ø 1,2	Ø 1,6	code
PREMIARC DW 307	T 18 8 Mn	✓	✓	EW07-...KB
PREMIARC DW 318	T 19 12 3 Nb	✓	✓	EW18-...KB

AWS A5.34		Ø 1,2	Ø 1,6	code
PREMIARC DW N82	ENiCr3T0-4	on request	on request	EW082-...KB
PREMIARC DW NC276	ENiCrMo4T1-4	on request	on request	EW276-...KB
PREMIARC DW N625	ENiCrMo3T1-4	on request	on request	EW625-...KB

TIF - coated stainless steel rods for TIG welding

Diameter 2 mm, length 50 mm, 1 packing = 2,5 kg		code
TIF 308/L (red coating)	✓	EWT08-20
TIF 309/L (dark green coating)	✓	EWT09-20
TIF 316/L (green coating)	✓	EWT16-20

TGX - coated stainless steel rods - KOBELCO

	code
TG-X 308L R308LT1-5	✓ EWT08-22 KB
TG-X 309L R309LT1-5	✓ EWT09-22 KB
TG-X 316L R316LT1-5	✓ EWT16-22 KB
TG-X 347L R347LT1-5	✓ EWT34-22 LB





## Special stainless steel

Table of classification and typical chemical composition - special stainless steel

Electrodes	AWS A5.4	C	Cr	Ni	Mo	Mn	Si	Nb	Cu
SIDERINOX 317 L	E317L-16	0,04	18,0 - 21,0	12,0 - 14,0	3,00 - 4,00	0,50 - 2,50	1,00	-	0,75
SIDERINOX 318	E318-16	0,08	17,0 - 20,0	11,0 - 14,0	2,00 - 3,00	0,50 - 2,50	1,00	1,00 max	0,75
ALLOY 320 LR	E320LR-16	0,03	19,0 - 21,0	32,0 - 36,0	2,00 - 3,00	1,50 - 2,50	0,30	0,40 max	3,00 - 4,00
ALLOY 330	E330-16	0,18 - 0,25	14,0 - 17,0	33,0 - 37,0	0,75	1,00 - 2,50	1,00	-	0,75
SIDERINOX 385	E385-16 (904)	0,03	19,5 - 21,5	24,0 - 26,0	4,20 - 5,20	1,00 - 2,50	0,90	-	1,20 - 2,00
SIDERINOX 410 Ni Mo	E410NiMo-16	0,06	11,0 - 12,5	4,5 - 5,0	0,40 - 0,70	1,00	0,90	-	0,75
SIDER 17.4 CU	E630-16	0,05	16,0 - 16,75	4,5 - 5,0	0,75	0,25 - 0,75	0,75	0,15 - 0,30	3,25 - 4,00

Spools and rods	AWS A5.9	C	Cr	Ni	Mo	Mn	Si	Nb	Cu
SIDER 317L	ER317L	0,03	18,5 - 20,5	13,0 - 15,0	3,00 - 4,00	1,00 - 2,50	0,30 - 0,65	-	0,75
ALLOY 320 LR	ER320LR	0,025	19,0 - 21,0	32,0 - 36,0	2,00 - 3,00	1,50 - 2,00	0,15	-	0,75
ALLOY 330	ER330	0,18 - 0,25	15,0 - 17,0	34,0 - 37,0	0,75	1,00 - 2,50	0,30 - 0,65	-	0,75
SIDER 385 (904)	ER385	0,025	19,5 - 21,5	24,0 - 26,0	4,20 - 5,20	1,00 - 2,50	0,50	-	1,20 - 2,00
SIDERINOX 410 Ni Mo	ER410NiMo	0,06	11,0 - 12,5	4,0 - 5,0	0,40 - 0,70	0,60	0,50	-	0,75
ALLOY 630	ER630 (17-4 PH)	0,05	16,0 - 16,75	4,5 - 5,0	0,75	0,25 - 0,75	0,75	-	3,25 - 4,00

## Wires for welding galvanized materials

	Ø mm	0,8	1,0	code
SIDER CuSi 3	Spool - plastic 12,5 kg	✓	✓	ECSi
	Spool - plastic 5 kg	✓	✓	ECSB

## Welding wires for cast iron

	Ø mm	1,2	code
SIDER NF 55 - Spool - plastic 15 kg	material on request		EDNF-12

## Welding wires for hardfacing

### Welding wires MIG

	Ø mm	1	1,2	1,6	code
SIDER 350 - Plastic spool 15 kg	-	✓	✓	-	ER35
SIDER 600 - Metal spool 15 kg (without center)	✓	✓	✓	✓	ER60
SIDER 650 - Plastic spool 15 kg	-	✓	✓	-	ER65
SIDER 600 FCW (flux) - Plastic spool 15 kg	-	material on request	-	-	ER60W

### Welding wires TIG

(1 packing = 5 kg x1000 mm)

	Ø mm	2	2,4	3,2	code
SIDER 600 T	✓	✓	✓	✓	ER60T



Table of classification and typical chemical composition - special wires

## Stainless steel wires for MIG and submerged arc

	UNI EN ISO 14343			C	Cr	Ni	Mo	Mn	Si	Nb	Cu
	AWS	EN12072	DIN material no.								
SIDER 307Si	---	18 8 Mn	1.4370	0,05	21	9	1	5	0,85	-	0,20
SIDER 308L	ER308L	19 9 L	1.4316	0,02	20	9,80	0,20	1,80	0,45	-	0,10
SIDER 308LSi	ER308LSi	19 9 LSi	1.4316	0,02	20	10,20	0,20	1,80	0,85	-	0,20
SIDER 309L	ER309L	23 12 L	1.4332	0,03	24	13	0,20	1,80	0,45	-	0,20
SIDER 309LSi	ER309LSi	23 12 LSi	1.4332	0,03	24	13	0,20	1,80	0,85	-	0,20
SIDER 309LMo	(ER309LMo)	23 12 2 L	(1.4459)	0,03	24	13	2,50	1,80	0,45	-	0,20
SIDER 310	ER310	25 20	(1.4842)	0,12	26	20,80	0,30	1,80	0,45	-	0,30
SIDER 312	ER312	29 9	1.4337	0,10	30	9,20	0,20	1,80	0,40	-	0,20
SIDER 316L	ER316L	19 12 3 L	1.4430	0,02	18,50	12,50	2,60	1,40	0,45	-	0,20
SIDER 316LSi	ER316LSi	19 12 3 LSi	1.4430	0,02	18,50	12,50	2,60	1,80	0,85	-	0,20
SIDER 318Si	(ER318)	19 12 3 Nb Si	1.4576	0,08	19,00	12,50	2,60	1,80	0,85	0,60	0,20
SIDER 347	ER347	19 9 Nb	1.4551	0,05	19,50	9,80	-	1,60	0,45	0,60	-
SIDER 347Si	ER347Si	19 9 Nb Si	1.4551	0,05	19,50	9,80	-	1,60	0,85	0,60	-
SIDER 410	ER410	13	---	0,05	13,50	0,30	0,20	0,40	0,30	-	0,20
SIDER 430	ER430	17	1.4016	0,10	17	0,60	-	0,60	0,50	-	-
SIDER 4122	---	---	1.4122	0,40	17	1	1	1	0,60	-	-
SIDER 2209 (type Duplex)	ER2209	22 9 3 N L	(1.4462)	0,02	22,50	9	3,20	1,60	0,50	-	-
SIDER 2594 (type Super-Duplex)	---	25 9 4 N L	---	0,02	25,00	9,50	4,00	0,40	0,40	-	0,04

## Stainless steel rods for TIG

	UNI EN ISO 14343			C	Cr	Ni	Mo	Mn	Si	Nb	Cu
	AWS	EN12072	DIN material no.								
SIDER 308LT	ER308L	19 9 L	1.4316	0,02	20	9,80	0,20	1,80	0,45	-	0,10
SIDER 308LSi	ER308LSi	19 9 LSi	1.4316	0,02	20	10,20	0,20	1,80	0,85	-	0,20
SIDER 309LT	ER309L	23 12 L	1.4332	0,03	24	13,00	0,20	1,80	0,45	-	0,20
SIDER 309LSi	ER309LSi	23 12 LSi	1.4332	0,03	24	13	0,20	1,80	0,85	-	0,20
SIDER 309LMoT	(ER309LMo)	23 12 2 L	(1.4459)	0,03	24	13,00	2,50	1,80	0,45	-	0,20
SIDER 310T	ER310	25 20	(1.4842)	0,12	26	20,80	0,30	1,80	0,45	-	0,30
SIDER 312T	ER312	29 9	1.4337	0,10	30	9,20	0,20	1,80	0,40	-	0,20
SIDER 316LT	ER316L	19 12 3 L	1.4430	0,02	18,50	12,50	2,60	1,40	0,45	-	0,20
SIDER 316LSi	ER316LSi	19 12 3 LSi	1.4430	0,02	18,50	12,50	2,60	1,80	0,85	-	0,20
SIDER 318LSi	(ER318)	19 12 3 Nb Si	1.4576	0,08	19,00	12,50	2,60	1,80	0,85	0,60	0,20
SIDER 347T	ER347	19 9 Nb	1.4551	0,05	19,50	9,80	-	1,60	0,45	0,60	-
SIDER 347LSi	ER347Si	19 9 Nb Si	1.4551	0,05	19,50	9,80	-	1,60	0,85	0,60	-
SIDER 410T	ER410	13	---	0,05	13,50	0,30	0,20	0,40	0,30	-	0,20
SIDER 2209T (type Duplex)	ER2209	22 9 3 N L	1.4462	0,02	22,50	9	3,20	1,60	0,50	-	-
SIDER 2594T (type Super-Duplex)	---	25 9 4 N L	---	0,02	25,00	9,50	4,00	0,40	0,40	-	0,04

## Welding wires for cast iron

	DIN 17745	C	Mn	Si	Ni	Fe
SIDER NF 55	2.4472	0,04	0,60	0,15	56,00	Bal.

## Welding wires for hardfacing

(HB - Brinell hardness)	DIN 8555	Hardness HB	C	Si	Mn	Cr	Mo	V	W
SIDER 350	MSG 5-GZ-350	337-372	0,08	0,55	0,90	6,00	0,90	-	-
SIDER 600	MSG 6-GZ-60	550-620	0,45	3,00	0,40	9,30	-	-	-
SIDER 650	MSG 3-60	558-620	0,35	1,10	0,40	5,20	1,40	0,40	1,30
SIDER 600 FCW (cored wire)	MSG 6-GF-60-GP	570-620	0,60	0,60	1,80	7,00	-	-	-

## Stainless steel flux wires

	AWS A5.22-95	C	Cr	Ni	Mo	Mn	Si	Nb
FCW 308 LT	E308 LT 0-1/-4	0,030	20,10	10,20	-	1,16	0,60	-
FCW 309 LT	E309 LT 0-1/-4	0,030	23,50	12,75	-	1,17	0,75	-
FCW 309 MoLT	E309 L Mo T 0-1/-4	0,025	23,10	13,40	2,30	1,16	0,72	-
FCW 310	E310 T 0-4	0,060	26,10	21,90	-	1,60	0,40	-
FCW 316 LT	E316 LT 0-1/-4	0,030	18,50	12,30	2,70	1,12	0,68	-
FCW 317 LT	E317 LT 0-1/-4	0,025	19,00	13,20	3,47	1,10	0,72	-
FCW 318 LT	---	0,030	19,20	12,40	2,50	1,17	0,60	0,45
FCW 329 J3L	E2209T1-4	0,025	22,75	8,90	3,00	1,03	0,66	-
FCW 347 T	E347 T 0-1/-4	0,050	19,80	9,70	-	1,11	0,56	0,65
FCW 329J4L	CEN E25 94L	0,027	25,65	8,75	3,40	1,29	0,50	-

## High nickel wires - flux cored

	AWS A5.14	Cr	Ni	C	Mn	Si	Fe	S	P	Ti	Nb+Ta	Mo
FCW 82	ER NiCr-3	21,47	Bal.	0,036	3,10	0,33	1,90	0,006	0,003	0,28	2,49	-
FCW 625	ER NiCrMo-3	21,97	Bal.	0,034	0,09	0,29	4,73	0,002	0,009	0,21	3,33	8,56
	AWS A5.14	Cr	Ni	C	Mn	Si	Fe	S	P	Ti	Nb+Ta	Mo
FCWHC-4	ER NiCrMo-4	15,86	Bal.	0,013	0,26	0,18	6,14	0,003	0,008	-	3,42	15,57
FCWHC-22	ER NiCrMo-10	21,00	Bal.	0,018	0,29	0,20	5,48	0,004	0,006	-	3,14	13,70

## NON-FERROUS METALS AND THEIR ALLOYS

### Aluminium welding wires for MIG

Ø mm	0,8			1			1,2			1,6	2,4
	spools kg	0,5	2	7	0,5	2	7	0,5	2	7	7
SIDER AlMg3				✓			✓			✓	
SIDER AlMg5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SIDER AISi5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SIDER AISi12				✓			✓			✓	
SIDER Al99,5				✓			✓			✓	✓
SIDER AlMg4,5Mn				✓			✓			✓	✓

	code		
	Kg 0,5	Kg 2	Kg 7
SIDER AlMg3	-	-	-
SIDER AlMg5	EBAL	EAMH	EAMG
SIDER AISi5	EBAS	EALH	EALS
SIDER AISi12	-	-	-
SIDER Al99,5	-	-	EA99
SIDER AlMg4,5Mn	-	-	EAMN



### Aluminium welding wires for TIG

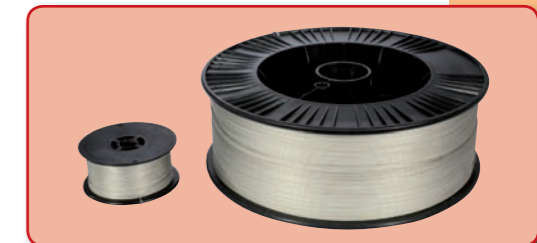
Length 1000 mm - 1 packing = 10 kg

	Ø mm	code					
		1,2	1,6	2	2,4	3,2	4
SIDER AlMg3T			✓	✓	✓	✓	EA3T
SIDER AlMg5T	✓	✓	✓	✓	✓	✓	EAMT
SIDER AISi5T	-	✓	✓	✓	✓	✓	EALT
SIDER AISi12T		✓	✓	✓	✓		EALT
SIDER Al 99,5T	-	✓	✓	✓	✓	✓	EA9T
SIDER AlMg4,5MnT	-	✓	✓	✓	✓	✓	EA4T

### Titanium welding wires for MIG

	AWS	Ø mm	code				
			0,8	1	1,2	1,6	
Grade 1	ERTi-1						ETF1
Grade 2	ERTi-2						ETF2
Grade 5	ERTi-5						ETF5
Grade 7	ERTi-7						ETF7

material on request

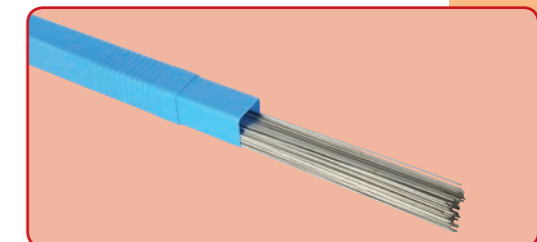


### Titanium welding rods for TIG

Length 1000 mm - 1 packing = 2,5 kg

	AWS	Ø mm	code			
			1,6	2	2,4	
Grade 1	ERTi-1					ETT1
Grade 2	ERTi-2					ETT2
Grade 5	ERTi-5					ETT5
Grade 7	ERTi-7					ETT7

material on request

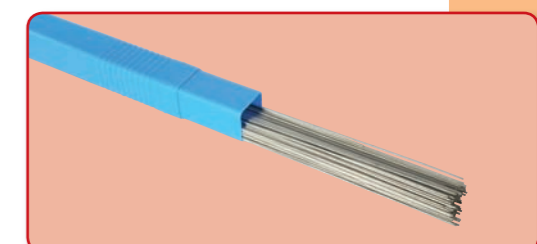


### Magnesium welding rods for TIG

Length 1000 mm - 1 packing = 2,5 kg

	AWS A 5.19	Ø mm	code
MAGNESIO AZ61A	ERAZ61A		EMGT-24

material on request





## High nickel alloys

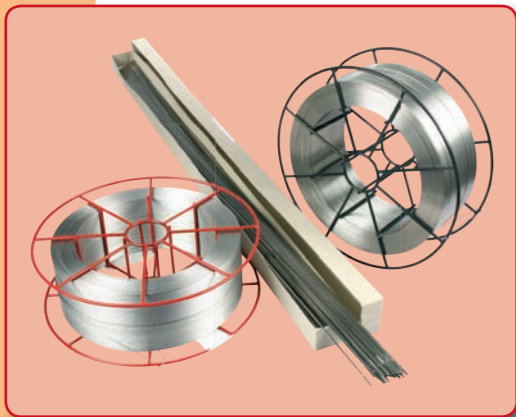
Electrodes, MIG wires, submerged arc wires and strips, TIG rods



ELEKTRODES	AWS
HCS-CO	ENiCrMo-5
Alloy A	ENiCrFe-2
Alloy B-2	ENiMo-7
Alloy B-3	ENiMo-10
Alloy C-276	ENiCrMo-4
Alloy G-30	ENiCrMo-11
Alloy X	ENiCrMo-2
Alloy 59	ENiCrMo-13
Alloy 112	ENiCrMo-3
Alloy 117	ENiCrCoMo-1
Alloy 122	ENiCrMo-10
Alloy 132	ENiCrFe-1
Alloy 141	ENi-1
Alloy 182	ENiCrFe-3
Alloy 187	ECuNi
Alloy 190	ENiCu-7



Wires and rods	AWS
Alloy B-2	ERNiMo-7
Alloy B-3	ERNiMo-10
Alloy C-276	ERNiCrMo-4
Alloy C-2000	ERNiCrMo-17
Alloy G-30	ENiCrMo-11
Alloy W	ERNiMo-3
Alloy X	ENiCrMo-2
Alloy 52	ERNiCrFe-7
Alloy 59	ERNiCrMo-13
Alloy 60	ERNiCu-7
Alloy 61	ERNi-1
Alloy 62	ERNiCrFe-5
Alloy 65	ERNiFeCr-1
Alloy 67	ERCuNi
Alloy 82	ERNiCr-3
Alloy 92	ERNiCrFe-6
Alloy 230 W	ERNiCrWMo-1
Alloy 601	ERNiCrFe-11
Alloy 617	ERNiCrCoMo-1
Alloy 622	ERNiCrMo-10
Alloy 625	ERNiCrMo-3
Alloy 718	ERNiFeCr-2



Strips	AWS
Alloy C-276	EQNiCrMo-4
Alloy 60	EQNiCu7
Alloy 82	EQNiCr-3
Alloy 622	EQNiCrMo-10
Alloy 625	EQNiCrMo-3

Available in dimensions: 30 x 0,5; 60 x 0,5

## Extra alloy materials

AMS	AWS or other marking	Alloy
1374	ER 5356	5356 Al Mg5
1414	ER 5183	5183 Al Mg4.5 Mn
1674	PWA694 GE B50A842	Alloy 694
1745	GE B50A823	FSX-414
4180	ER 1100	1100 Aluminum
4181	ER-A356.0	365 & 4008 Aluminum
4182		5056 Aluminum
4184	ER 4145	4145 Aluminum
4185		4047 Aluminum
4189	ER 4643	4643 Aluminum
4190	ER 4043	4043 Aluminum
4191	ER 2319	2319 Aluminum
4246	ER-A357.0	357 & 4011 Aluminum
4350		AZ61A
4395	ER AZ92A	AZ92A Magnesium
4396	ER EZ33A	EZ33A Magnesium
4397		LA 141 Magnesium Lithium
4701		Copper Annealed
4730		Monel 400
4914		Alloy 15-3-3-3
4951	ER TI-1 & TI-2	Commercially Pure Titanium
4952		6-2-4-2 Titanium
4953		5AL 2.5 SN Titanium
4954	ER TI-5	6AL-4V Titanium
4955		8AL-1MO-1V Titanium
4956	ER TISELI	6AL-4V ELI Titanium
4959		13-11-3 Titanium Spring Temper
4977		11MO-6ZN-4.5 SN Titanium
5385		Alloy 21
5617		Alloy 455
5621		Alloy 420
5659		Alloy 15-5
5660		Alloy I-901
5675	ER NICR FE-6	Alloy I-92
5676		Nichrome V
5679	ER NICR FE-5	Alloy I-62
5680	ER 347	T-347 Stainless
5683		Alloy I-42
5685		305 Safety Wire
5687		Alloy I-600
5688		302 Spring Temper
5689	ER 321	T-321 Stainless
5690	ER 316	T-316 Stainless
5694	ER 310	T-310 Stainless
5697		T-304 Stainless
5698		Alloy X-750 #1 Temper

AMS	AWS or other marking	Alloy
5699		Alloy X-750 Spring
5763		Alloy 450
5774		AM350
5776	ER 410	T-410 Stainless
5778		Alloy I-69/X750
5780		AM355
5782		T-349 Stainless (19-9)
5784	ER 312	T-410 Stainless (29-9)
5786	ER NIMO-3	Alloy H-W
5789		Alloy S-31
5794		N155
5796		L605 (H-25)
5798	ER NICRMO-2	Alloy H-X
5800		Alloy R-41
5801		Alloy H-188
5804		A286 Stainless (STD)
5805		A-286 Premium
5812		WPH 15-7 Premium
5813		WPH 15-7 Standard
5814	GE B50A824	MAR-M-918
5817		Greek Asoloy
5821		410 Stainless MOD
5823		Jethete M190
5824		17-7 Stainless
5825	ER 630	17-4 Stainless
5826		15-5 PH
5828		WASPALLOY
5832	ER NIFECR-2	Alloy I-718
5837	ER NICRMO-3	Alloy I-625
5840		PH 13-8MO
5872		Nimonic 263
5966		Alloy C263/B50A783
6350		4130
6431		D6AC
6457		4130 V.M.
6458		17-22 V.M
6460		NAX-9115-AC
6461		6130 Premium
6462		6130 Standard
6466	ER 502	Alloy 502
	ER TI-7	CPTI Grade 7 (TI-0.2PD)
	ERZR-2	Zirconium 702
	ER 316L	T-316L Stainless
	ER 308L	T-308L Stainless
	ER 308	T-308 Stainless
	ER NICRMO-4	Alloy H-C276



## Bronze and copper welding wires and copper alloys

MIG WELDING - Plastic spool 5/12,5 Kg

	Ø 0,8	Ø 1,0	Ø 1,2	AWS	code
SIDER AlBz 8 (*)	✓	✓	✓	ERCuAl-A1	ECAB
SIDER AlBz 9 Fe	✓	✓	✓	ERCuAl-A2	ECAF
SIDER CuSn 6	✓	✓	✓	ERCuSn-A	ECS6
SIDER CuSn 8	✓	✓	✓	ERCuSn-C	ECS8
SIDER Cu	✓	✓	✓	ERCu	ECSM
SIDER CuSi 3(*)	✓	✓	✓	ERCuSi-A	ECSI

(\*) Available also in diameter 0,8 mm on 5 kg spool

TIG WELDING - Length 1000 mm, 1 packing = 5/10 Kg

	Ø 1,6	Ø 2,0	Ø 2,4	Ø 3,2	AWS	code
SIDER AlBz 8T	✓	✓	✓	✓	ERCuAl-A1	ECBT
SIDER AlBz 9 Fe	✓	✓	✓	✓	ERCuAl-A2	ECAF
SIDER CuSn 6T	✓	✓	✓	✓	ERCuSn-A	EC6T
SIDER CuSn 8T	✓	✓	✓	✓	ERCuSn-C	EC8T
SIDER Cu T	✓	✓	✓	✓	ERCu	ECST
SIDER CuSi 3T	✓	✓	✓	✓	ERCuSi-A	ECSS

## Cobalt based alloys (Stellite), original Weartech®

ELECTRODES, WIRES ON SPOOLS, RODS, POWDERS, CASTS  
Exclusive distributor for Italy

Alloy	Specification	Name	C	Cr	Co	W	Ni	Fe	Si	Mo	Other	Hardnes
WT-1	RCrCr-C	Stellite 1	2,3	30	Bal.	13	<3	<3	0,8			51-59
WT-6	RCrCr-A	Stellite 6	1,1	28	Bal.	4	<3	<3	1,1			38-46
WT-12	RCrCr-B	Stellite 12	1,4	29	Bal.	8	<3	<3	1,5			46-52
WT-21	RCrCr-E	Stellite 21	0,25	27	Bal.		2,5	<3	1 max	5		30-43
WT-25		L-605	0,1	20	Bal.	15	10	<3	1			24

## PRAXAIR - Tafa

Powder for plasma welding and flame spraying HVOF  
(Authorized distributor for Italy)

### Powder for metallization

Powder for cold and hot metal coating  
Powder for Ni-Cr-B-Si  
For use with manual torch SF

### Wires for metal-coating and accessories

On request

## WALLCOLMONOY - EXCLUSIVE SUPPLIER FOR ITALY

Powders and rods for nickel alloys Colmonoy  
Powders and rods for cobalt alloys Walex  
Powder and paste for brazing Microbraz

Materials are on request.



## Table of classification and typical chemical composition - non-ferrous metals, alloys

### Copper wires for MIG and TIG

	AWS A5.7	DIN 1733	Cu	Al	Si	Mn	Ni	Zn	Sn	Fe	S	P	Ti
SIDER AlBz 8	ERCuAl-A1	SG-CuAl8	bal.	7,5-9,5	0,20 max	0,02-1,80	0,02-1,80	0,20 max	-	0,50 max	-	-	-
SIDER AlBz 9 Fe	ERCuAl-A2	SG-CuAl10Fe	bal.	9-11	0,10 max	-	-	0,02 max	-	0,70-1,50	-	-	-
SIDER CuSn 6	ERCuSn-A	SG-CuSn6	bal.	0,01 max	-	-	-	0,10 max	4,0-6,0	0,25 max	-	0,10-0,35	-
SIDER CuSn 8	(ECuSn-C)*	SG-CuSn6	bal.	0,01 max	-	-	-	0,10 max	7,0-9,0	0,25 max	-	0,05-0,35	-
SIDER Cu (CuSn)	ERCu	SG-CuSn	98 min.	-	0,10-0,50	0,10-0,50	0,30 max	-	0,50-0,10	0,05 max	-	-	-
SIDER CuSi 3	ERCuSi-A	SG-CuSi3	bal.	-	2,9	0,9	-	-	-	-	-	-	-

(\*) Similar with electrode AWS A5.6 ECuSn-C

### High nickel wires and tapes

	AWS A5.14	DIN 1736	Cr	Ni	C	Mn	Si	Fe	Cu	S	P	Ti	Nb	Mo
ALLOY B-2	ERNiMo-7	-	1,0 max	Bal.	0,02 max	0,10 max	0,1 max	2,0 max	0,50 max	0,03 max	0,04 max	-	-	26,0-30,0
ALLOY B-3	ERNiMo-10	-	1,0-3,0	65,0 min	0,01 max	3,00 max	0,1 max	1,0-3,0	0,20 max	0,03 max	0,01 max	0,2 max	Co:0,3 max	27,0-32,0
ALLOY C-276	ERNiCrMo-4	NiMo16Cr15W	14,5-16,5	Bal.	0,02 max	1,0 max	0,08 max	4,0-7,0	W:3,0-4,5	0,03 max	0,04 max	Co:2,5 max	V:0,35 max	15,0-17,0
ALLOY C-2000	ERNiCrMo-17	NiCr23Mo16Cu-	23,0	Bal.	0,01 max	0,5 max	0,08 max	3,0 max	1,6 max	-	-	-	-	16,0
ALLOY G-30	ERNiCrMo-11	-	28,0-31,5	Bal.	0,03 max	1,5 max	0,08 max	13,0-17,0	1,0-2,4	Co:5,0 max	0,04 max	W:1,5-4,0	0,30-1,50	4,0-6,0
ALLOY W	ERNiMo-3	-	5,0	63,0	0,12 max	1,0 max	1,0 max	6,0	-	-	V:0,6 max	Co:2,5 max	-	24,0
ALLOY X	ERNiCrMo-2	-	20,5-23	Bal.	0,05-1,50	1,0 max	0,50 max	17,0-20,0	0,50 max	0,03 max	0,04 max	W:0,20-1,0	3,14-4,15	8,0-10,0
ALLOY 52	ERNiCrFe-7	-	28,0-31,5	Bal.	0,04 max	1,0 max	0,50 max	7,0-11,0	0,30 max	0,015 max	0,02 max	1,0 max	0,1 max	0,5 max
ALLOY 59	ERNiCrMo-13	NiCr23Mo16Al	22,0-24,0	Bal.	0,01 max	0,5 max	1,0 max	1,5 max	-	0,005 max	0,015 max	Co:0,3 max	-	15,0-16,5
ALLOY 60	ERNiCu-7	SG-NiCu30MnTi	-	62-69	0,15 max	4,0 max	1,25 max	2,5 max	Bal.	0,015 max	0,02 max	1,5-3,0	-	-
ALLOY 61	ERNi-1	SG-NiTi4	-	93 min	0,15 max	1,0 max	0,75 max	1,0 max	0,25 max	0,015 max	0,03 max	2,0-3,5	-	-
ALLOY 62	ERNiCrFe-5	-	15,5 Cr	73 Ni	-	-	-	8,0	-	-	-	-	2,2 Nb	-
ALLOY 65	ERNiFeCr-1	-	19,5-23,5	38,0-46,0	0,05 max	1,0 max	0,50 max	22,0 min	1,5-3,0	0,03 max	0,03 max	0,60-1,20	-	2,5-3,5
ALLOY 67	ERCuNi	-	-	29,0-32,0	0,04 max	1,0 max	0,25 max	0,40-0,75	Bal.	0,01 max	0,02 max	0,20-0,50	-	-
ALLOY 82	ERNiCr-3	SG-NiCr20Nb	18-22	67 min	0,10 max	2,5-3,5	0,50 max	3,0 max	0,5 max	0,015 max	0,03 max	0,75 max	2-3	-
ALLOY 92	ERNiCrFe-6	-	14,0-17,0	67,0 min	0,08 max	2,0-2,7	0,35 max	8,0 max	0,50 max	0,015 max	0,03 max	2,5-3,5	-	-
ALLOY 230W	ERNiCrWMo-1	-	22,0	57,0	0,07	0,5	0,4	3,0	-	-	Co:5,0	-	-	2,0
ALLOY 601	ERNiCrFe-11	-	21,0-25,0	58,0-36,0	Bal.	1,0 max	0,5 max	0,1 max	1,0 max	0,015 max	-	-	-	-
ALLOY 617	ERNiCrCoMo-1	-	22,0	54,0	0,07	-	-	1,0	-	-	Co:12,5	0,3	-	9,0
ALLOY 622	ERNiCrMo-10	-	20-22,5	Bal.	0,15 max	0,50 max	0,08 max	2,0-6,0	0,50 max	0,010 max	0,02 max	-	-	12,0-14,0
ALLOY 625	ERNiCrMo 3	SG-NiCr21Mo9Nb	20-23	58 min	0,10 max	0,50 max	0,50 max	5,0 max	0,50 max	0,015 max	0,02 max	0,40 max	3,14-4,15	8-10
ALLOY 718	ERNiFeCr-2	-	17,0-21,0	50,0-55,0	0,08 max	0,35 max	0,35 max	Bal.	0,1 max	0,015 max	Co:1,0 max	0,65-1,15	4,75-5,50	2,8-3,3

### Aluminium wires for MIG and TIG

	AWS A5.10	DIN 1732	Si	Fe	Mn	Mg	Al	Cr	Zn+Ti
SIDER AlMg5	ER5356	SG-AlMg5	0,25	0,40	0,15	4,5-5,6	rest	0,80 max	0,25
SIDER AlSi5	ER4043	SG-AlSi5	4,5-5,5	0,40	0,05	0,05	rest	-	0,25
SIDER Al99	ER1100	SG-Al99,5	0,30	0,40	-	-	rest	-	0,15
SIDER AlMg4,5Mn	ER5183	SG-AlMg4,5Mn	0,40	0,40	0,60-1,00	4,30-5,20	rest	0,25 max	0,25

### Titan wires

	AWS A5.16	UNS NUMBER	C	O	N	H	Fe	Al	V	Pd	Rif	V	Ti
ERTI-1		R50100	0,03	0,03-0,10	0,012	0,005	0,08	-	-	-	-	-	rest
ERTI-2		R50120	0,03	0,08-0,16	0,015	0,008	0,12	-	-	-	-	-	rest
ERTI-5		R56400	0,05	0,12-0,20	0,030	0,015	0,22	5,5-6,7	3,5-4,5	-	-	-	rest
ERTI-7		R56401	0,03	0,08-0,16	0,015	0,008	0,12	-	-	0,12-0,25	-	-	rest

## EQUIPMENT FOR PERSONAL PROTECTION

### PROTECTIVE HELMETS WITH AUTODARKERING FILTERS

ORIGINAL HELMETS SPEEDGLAS		code
9100V (light/dark shade 5/8-13, view 46x93mm)	✓	S501805
9100X (light/dark shade 5/8-13, view 54x107mm)	✓	S501815
9100XX (light/dark shade 5/8-13, view 73x107mm)	✓	S501125
9100V - FX	✓	S541805
9100X - FX	✓	S541815
9100XX - FX	✓	S541825
100S (darkening 11 - fixed)	✓	S751111
100V (variable setting, 5 grades darkening from 8 to 12)	✓	S751120
SL SuperLeggera (variable setting, 5 grades darkening from 8 to 12)	✓	S701120

HELMETS TYPE 9002		code
Universal headband for 9002	✓	S165010
Outer laminated cover for 9002, 1 packing = 10 pcs	✓	S426000
Inner laminated cover for 9002V, 1 packing = 5 pcs	✓	S428000
Inner laminated cover for 9002X, 1 packing = 5 pcs	✓	S428010
Metallized front panel for 9002	✓	S432000
2 pcs of lithium batteries for 9002	✓	S422000
2 pcs of front protective belts for 9002	✓	S167520
Flexible view - KIT for 9002	✓	S440500

HELMETS TYPE 9100		code
Helmet without headband and filter for 9100 with side view	✓	S501800
Helmet without headband and filter for 9100FX	✓	S541800
Filter for 9100V	✓	S500005
Filter for 9100X	✓	S500015
Filter for 9100XX	✓	S500025
Headband for 9100 and 9100FX	✓	S533000
Outer laminated cover for 9100, 1 packing = 10 pcs	✓	S526000
Inner laminated cover for 9100V, 1 packing = 5 pcs	✓	S528005
Inner laminated cover for 9100X, 1 packing = 5 pcs	✓	S528015
Inner laminated cover for 9100XX, 1 packing = 5 pcs	✓	S528025
Visors for 9100FX, 1 package = 5 pcs	✓	S523000
Metallized front panel for 9100	✓	S532000
3 pcs of front protective belts for 9100	✓	S168015
2 pcs of lithium batteries for 9100	✓	S422000

HELMETS TYPE 100		code
Outer laminated cover for 100, 1 packing = 10 pcs	✓	S776000
Inner laminated cover for 100, 1 packing = 5 pcs	✓	S428000
Headband for 100	✓	S165025
Metallized front panel for 100	✓	S772000
2 pcs of lithium batteries for 100	✓	S422000

HELMETS TYPE SL		code
Outer laminated cover for SL, 1 packing = 5 pcs	✓	S726000
Inner laminated cover for SL, 1 packing = 5 pcs	✓	S428000
2 pcs of lithium batteries for SL	✓	S422000
Headband for SL	✓	S705010

SYSTEM ADFLO - ORIGINAL SPEEDGLAS		code
System ADFLO with helmet Speedglass 9100V	✓	S566605
System ADFLO with clear shield	✓	S899020

Accessories and spare parts		code
Spare parts for filter SL	✓	S837010
Sweatband in leather	✓	S837620
Charging battery - HEAVY-DUTY	✓	S837621
Charger	✓	S833101
Flexible hose - standard for 9002	✓	S834000
Flexible hose - standard for 9100	✓	S834016

#### Guarantee

Guarantee is 12 months from the sale to the end customer. In the case of complaint, customer is required to submit a copy of the invoice on which is the serial number of the filter and this number is identical to the claimed filter.

If you will not show above mentioned document, the claim may not be accepted.



Helmet type 9100



Helmet type 9100V-FX with flexible view



Helmet type 100



Helmet type SL SuperLeggera



System ADFLO with helmet 9100V



System ADFLO with clear shield



# EQUIPMENT FOR PERSONAL PROTECTION



Helmet type BEST VISION

## Welding helmet Best Vision

Welding helmet with autodarkening filter Best Vision. Autodarkening filter is automatically changing from light to dark state when the welding arc begins. After stop welding filter is changing automatically from dark to light state. Wide view 98 x 44 mm.

		code
BEST VISION	✓	SUAD-OV9
<b>Accessories and spare parts</b>		
Outside protection plate, 1 packing = 10 pcs	✓	SUAI-OV9
Inside protection plate, 1 packing = 5 pcs	✓	SUAE-OV9
Complete helmet without filter	✓	SUAC-OV9
Filter with variable regulation	✓	SUAF-OV9
Headband for Best Vision	✓	SUAT-OV9
Sweatband - complete	✓	SUAS-OV9

## Welding helmet Best Vision Gold

Welding helmet with autodarkening filter. Outside setting of sensitivity for min/max thanks to using setting switch. Delay filter darkening control. Possibility of setting grinding function (filter is not darkening). Wide view 98 x 44 mm.

		code
BEST VISION GOLD	✓	SUAD-OV9
<b>Accessories and spare parts</b>		
Outside protection plate, 1 packing = 10 pcs	✓	SUAI-OV9G
Inside protection plate, 1 packing = 5 pcs	✓	SUAE-OV9
Complete helmet without filter	✓	SUAC-OV9G
Filter with variable regulation	✓	SUAF-OV9G
Headband for Best Vision Gold	✓	SUAT-OV9
Sweatband - complete	✓	SUAS-OV9



Helmet type BEST VISION GOLD

## Welding helmet Ghost

		code
GHOST		SUAD-GH
<b>Accessories and spare parts</b>		
Outside protection plate, 1 packing = 10 pcs		SUAI-OV9
Inside protection plate, 1 packing = 5 pcs		SUAE-GH
Headband for Ghost		SUAT-GH
Sweatband		SUAS-GH



Helmet type GHOST

## Welding helmet Maxi Vision

Welding helmet with autodarkening filter and variable darkening (5-8/9-13). Large wide LCD view 98x87 mm. Control sensitivity setting and delay filter darkening control. Battery indicator. Possibility of setting grinding function. Sweatband - complete.

		code
<b>Accessories and spare parts</b>		
Outside protection plate, 1 packing = 10 pcs		SUAI-MV
Inside protection plate, 1 packing = 5 pcs		SUAE-MV
Complete helmet without filter		SUAC-MV
Headband for Maxi Vision		SUAT-MV
Battery		SUAB-MV
Lens diopters 1.5 - 2.0 - 2.5 - 3.0		SUAL-...



Helmet type MAXI VISION

## Best Air

		code
System Best Air		SPAPR-BA1
<b>Accessories and spare parts</b>		
Air seal		SPAPR-TA
Hose with cover		SPAPR-TU
Headband		SPAPR-FC
Charger		SPAPR-CB
External filter		SPAPR-PF
Filter TH2 P R S L		SPAPR-F01
Charging battery		SPAPR-BA
Belt		SPAPR-CI
Outside protection plate, 1 packing = 10 pcs		SUAI-OV9
Inside protection plate, 1 packing = 5 pcs		SUAE-BA



System BEST AIR

## Guarantee

Guarantee is 12 months from the sale to the end customer. In the case of complaint, customer is required to submit a copy of the invoice on which is the serial number of the filter and this number is identical to the claimed filter. **If you will not show above mentioned document, the claim may not be accepted.**

# EQUIPMENT FOR PERSONAL PROTECTION



## Protective welding helmets

(WITH GLASS 98 X 75 MM)

### WITH DARK/CLEAR GLASS

			code
Mod. SC 3 - hand welding shield type "O" (plastic)	(1 packing = 15 pcs)	✓	SPSC-30
Reversible helmet for grinding 98x75 mm		✓	SPSR - IBI
Mod. SCF3 - welding helmet (fiber)		✓	SPSC-30F
Mod. SP 1 - glasses with lenses (DIN5) a leather protection	(1 packing = 5 pcs)	✓	SPSF-P01
Mod. SD 1 - hand welding helmet (fiber)	(1 packing = 20 pcs)	✓	SPSD-10F
Mod. SI 2 - hand welding helmet with angled reinforcement (fiber)	(1 packing = 20 pcs)	✓	SPSI-20

## Welding glass

### WELDING GLASS DARK

Dark glass - dark shade- 9-10-11-12-13

1 cardboard = 400/500 pcs from one dark shade, 1 packing = 100 pcs

	code	code	code
Welding glass dark	mm 105x50	mm 98x75	mm 110x90
	✓	✓	✓
	SVI-105	SVI-98C	SVI-90C

Mirror glass - dark shade - 9-10-11-12-13

1 cardboard = 400/500 pcs from one dark shade, 1 packing = 100 pcs

	code	code	code
Welding mirror glass	mm 98x75	mm 105x50	mm 110x90
	✓	✓	✓
	SVS-98C	SVS-105	SVS-90C

## DARK GLASS FROM SCHUTZGLAS CO. - CE CERTIFICATION EN166-EN169

Dark glass - dark shade- 9-10-11-12-13

1 packing = 100 pcs

		code
98 x 75 mm	✓	SVIS

Mirror glass (GOLD) - dark shade - 9-10-11-12-13

1 packing = 100 pcs

		code
98 X 75 mm	✓	SVSS

Other dimensions on request.

## CLEAR WELDING GLASS / CE MARKING

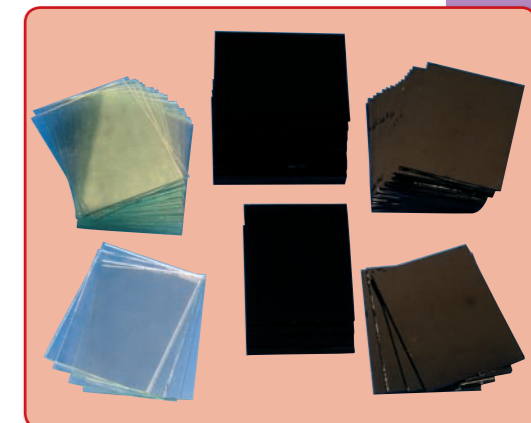
1 cardboard = 500 pcs

		code
98 X 75 mm	✓	SVBI-99E
110 X 90 mm	✓	SVBC-90E
105 X 50 mm	✓	SVBC-105E

## CLEAR POLYCARBONATE SHEET

1 packing = 100 pcs

		code
98 X 75 mm	✓	SVBS-98
110 X 90 mm	✓	SVBS-110
105 X 50 mm	✓	SVBS-105



Other diameters of clear glass are on request.



## PVC tent

Width 1400 mm  
PVC TENTS are fitted with welded rim along the entire length and press studs on both sides for connection to the required width. TENTS meet standard EN1598, are made of flexible fire-retardant PVC. Supplied with reinforced openings in the top and steel rings.

Colour/colour shade	height mm	thickness mm	weight	code
Transparent	1800	0,40	1,50 Kg	✓ STAT-18
Orange T4	1800	0,40	1,50 Kg	✓ STAR-18
Light green T6	1800	0,40	1,50 Kg	✓ STVC-18
Dark green T9	1800	0,40	1,50 Kg	✓ STAV-18

Bronze and transparent colours are on request

Other dimensions on request.

	dimensions	code
Frame for tents	1800 X 1400	✓ STEN-TEL

## Winding machine for tents

Ideal for creating barriers between different workplaces within 8 or 11 meters. In a very short time can be removed barriers and allow free passage.

	code
Winding machine 8 m	✓ SARR-TIR
Winding machine 11 m	✓ SARR-TIS

## PVC strips - 5 pcs packing

Colour/colour shade	width mm/roll	thickness mm/roll	weight/roll	code
Orange T4	1800	0,40	500	✓ STPA-18S
Light green T6	1800	0,40	500	✓ STPV-18S
Dark green T9	1800	0,40	500	✓ STPVS-18S

## PVC strips

Strips sold in 50m rolls

Colour/colour shade	width mm/roll	thickness mm/roll	weight/roll	code
Orange T4	300	2	37 Kg	✓ STAR-302
Dark green T9	300	2	37 Kg	✓ STAV-302

Bronze and transparent colours are on request.

## Panels

### GAZELLE

Panels consists from galvanized pipes (25 x 2,5 mm) and tent with thickness 0,4 mm, dimensions 1700 x 1650 mm. Panels are movable with possibility of separate workplace. For welding, milling, grinding. Each panel is supplied in mounting kit - dimensions 1750 x 100 x 100 mm, weight 6 kg.

	Colour/colour shade	dimensions in mm	code
Complete tent panel orange T4		2000 x 2000	✓ STAR-GAZ
Tent orange T4 (without frame)		1950 x 1650	✓ STTAR-GAZ
Complete tent panel light green T6		2000 x 2000	✓ STVC-GAZ
Tent light green T6 (without frame)		1950 x 1650	✓ STTVC-GAZ
Complete tent panel dark green T6		2000 x 2000	✓ STAV-GAZ
Tent dark green T9 (without frame)		1950 x 1650	✓ STTAV-GAZ

## OMNIUM

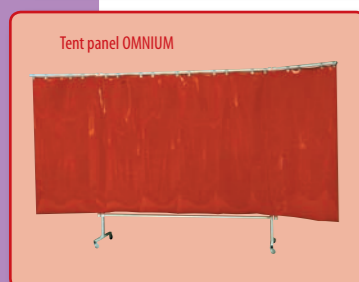
Panels made from tubes with dimensions 30x2 mm and squares 30x40x2 m. Ideal for creating separate welding stations which can be freely extended.

Part	dimensions in mm	weigh	tent	code
Central part	2150 x 2000 (H)	20	2 pcs - 1600 x 1400	✓ STAR-OMN
Little leaf (800 mm)	3750 x 2000 (H)	25	3 pcs - 1600 x 1400	✓ STAR-OMP
Large leaf (1100 mm)	4350 x 2000 (H)	30	4 pcs - 1800 x 1400	✓ STAR-OMG

Usually available orange tents with thickness 0,4 mm and height 140 mm. Other colours available on request - light green T6 and dark green T9.



Tent panel GAZELLE



Tent panel OMNIUM



## Protective glasses

	packing	cardboard	code
Shielding glasses from tempered glass	10 pcs	250 pcs	✓ S545-TR
Replacement pair of tempered glasses - neutral	20 pairs		✓ S545-BN
Shielding glasses with green glass DIN 5	10 pcs	250 pcs	✓ S545-05
Replacement pair of green glass DIN5	20 pairs		✓ S545-RV
Shielding glasses for welding with green glass DIN 5	10 pcs	125 pcs	✓ S515-05
Shielding glasses for welding with transparent glass DIN 5	20 pairs		✓ S515-TR
Replacement glasses green, diameter 50 (DIN 5-11)		100 pcs	✓ SVLN-CEST
Replacement glasses transparent, diameter 50		100 pcs	✓ SVBI-50T



## Protective hoods

Fire-resistant cotton PROBAN

Protective hoods protect against minor head injuries, dust and slag generated during welding.

	code
Classic hood from 100 % cotton (different colours, not fire-resistant)	✓ SCUF-EC
Protective hood from fire-resistant cotton PROBAN (green)	✓ SCUFP-NO
Protective hood from fire-resistant cotton PROBAN with neck protection (green)	✓ SCUFP-PP
Protective hood from fire-resistant cotton PROBAN with neck and shoulders protection (green)	✓ SCUFP-PT
Protective cape from fire-resistant cotton PROBAN	✓ SCUFP-MN



Classic hood SCUF-EC



Protecting hood from fire-resistant cotton PROBAN SCUFP-NO

Protecting hood from fire-resistant cotton PROBAN with neck protection SCUFP-PP

Protective hood from fire-resistant cotton PROBAN with neck and shoulders protection SCUFP-PT

Protective cape from fire-resistant cotton PROBAN SCUFP-MN

## Protective coatings (Aprons, muffs, boots)

Made from soft leather with Kevlar seams.

	code
Apron with pocket (length 91 cm - double protection)	✓ SGR-IT
Apron (length 91 cm - single protection)	✓ SGR-TTU
Muffs (length 48 cm), velcro fastening, elastic wrist	✓ SGMA-TT
Boots (length 15 cm), velcro fastening, elastic belt	✓ SGHE-TT
Welding split leather jacket (size L-XL-XXL)	✓ S12054-...





## Protective fabric HOTSTOP

Hotstop is fabric for thermal protection during welding and metal production.

**Hotstop** (1.200 g/m<sup>2</sup>) – with this fire-resistant fabric is possible cover any surface that will be protected from sparks and balls, which are formed during welding. Protects up to temperature 800°C.

**Hotstop V** (1.000 g/m<sup>2</sup>) – fabric to keep temperature of welded products, because the fabric can hold a long time at 1000°C.

	HOTSTOP		HOTSTOP V	
	code		code	
Cover with dimensions 2000 x 1000 mm	STWE-10	✓	STWV-10	✓
Cover with dimensions 2000 x 2000 mm	STWE-20	✓	STWV-20	✓
Roll type 1000 (height 1x length 50 m)	STSP-R1000	✓	/	/
Roll type 1000 (height 1x length 25 m)	/	/	STSV-R1000	✓

## Protective bolster Hotstop

Bolster for protection against heat and for comfortable working position during welding. Made of fabric resistant to heat (500°C max.) Filled with wool.

		code
Protective bolster 50 x 50 x 5 cm	✓	STHO-01C
Protective bolster 100 x 50 x 5 cm	✓	STHO-03C
Protective bolster 100 x 100 x 5 cm	✓	STHO-02C



## Knees protection Hotstop

Thermal protection of knees and elbows from heat resistant fabric (up to 500°C). Practical fastening with double stripes with velcro (wide – 5 cm). Filled with mineral wool.

		code
Knees protection Hotstop 20 x 33 x 3 cm	✓	STHG-01



# ACCESSORIES





## Tungsten electrodes

Length 175 mm - 1 packing = 10 pcs

Ø mm	1	1,2	1,6	2	2,4	3,2	4	4,8	code
Pure - green	✓	✓	✓	✓	✓	✓	✓	✓	DW17
Thorium 2 % - red	✓	✓	✓	✓	✓	✓	✓	✓	DV17
Cerium 2 % - gray	✓		✓	✓	✓	✓	✓		DC17
Lanthan Gold 1,5 % - gold			✓	✓	✓	✓	✓		DN17-A
Lanthan 2 % - blue			✓	✓	✓	✓	✓		DN17-C
Rare Elements - turquoise			✓	✓	✓	✓	✓		DWS2

## Grinders for tungsten electrodes

Grinding machine for TIG  
Suitable for grinding of electrodes with diameters 1,0 - 1,2 - 1,6 - 2,0 - 2,4 - 3,0 - 3,2 - 4,0 mm.  
Possibility of grinding electrodes with diameter 4,8 mm and length 50 mm with appropriate accessories. Grinding angle from 15° to 90°.

	code
Grinding machine for TIG (complete with diamond wheel)	SAFF-PA
Diamond wheel D107	SAMO-LA
Vacuum cleaner	SASP-91

Vacuum cleaner for wet and dry cleaning is made from solid plastic.  
Power 1100W, function 'blowing', supply cable length - 5 m, hose - 3,5 m, volume - 18 l.  
The mechanism of automatic connection to small devices (25 - 2.000 W): 5 seconds after turning off the vacuum cleaner will also turn off connected devices.

## MANUAL GRINDING

Handheld grinding machine for grinding and cutting tungsten electrodes up to 3.2 mm.  
Speed: 5.000-20.000 rPM

	code
Handheld hobby grinding machine for tungsten electrodes MINIPUNTIG - 230 V	SPPE-220
Handheld hobby grinding machine for tungsten electrodes MINIPUNTIG POCKET - battery 10,8 V	SPPE-010
Diamond wheel for grinding machine D1	SPPE-0021
Adapter to change the angle of inclination of electrode	SPPE-ADI
Recharging lithium battery for MINIPUNTIG POCKET - 10,8 V	SPPE-BAT

Guarantee 12 months

## MINIPUNTIG POCKET

Portable handheld grinding machine for grinding and cutting tungsten electrodes. Pocket size.  
The same performance and reliability as MINIPUNTIG, suitable where it is necessary from safety reasons to use tools with low voltage ( shipyards, workshops, mounting and wet places)

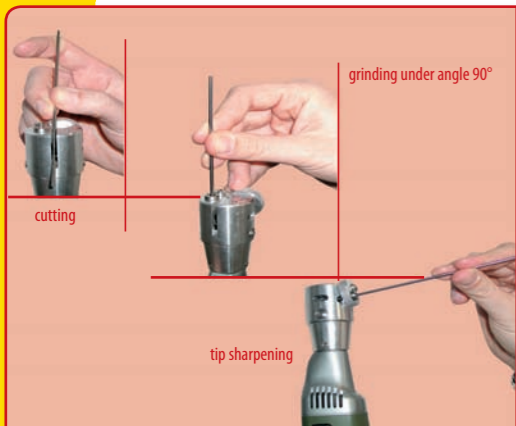
Package contents:  
grinding machine, charger, case

## CHARACTERISTICS

Weight	550 g
Dimensions	270 X 50 X 80 mm
Battery	lithium 10,8V
Electronic speed control	5.000-20.000 rPM

Guarantee 12 months

## MINIPUNTIG POCKET



## MIG welding torches and spare parts

Standard types

	code
FT-15P 4M - cooled with shielding gas	FEFT-15P
FS-25S 4M - cooled with shielding gas	FEFS-25SN
FS-26S 4M - cooled with shielding gas	FEFS-26SN
FS-36S 4M - cooled with shielding gas	FEFS-36SN
VS-501S 4M - cooled with water	FEVS-501SN



## TIG Welding torches and spare parts

Price lists and catalogues on request.



## Gas saver

Gas saver is used for the welding of reactive metals such titanium, aluminium, molybdenum, zirconium, alloys with low nickel and non-reactive metals such stainless steel.

In the production of large surfaces inert atmosphere prevent contamination of the weld and its surrounding from O<sub>2</sub> and N<sub>2</sub>.

Gas saver is very light and ensures comfortable operation and high precision of welding nozzle through the transparent cover.

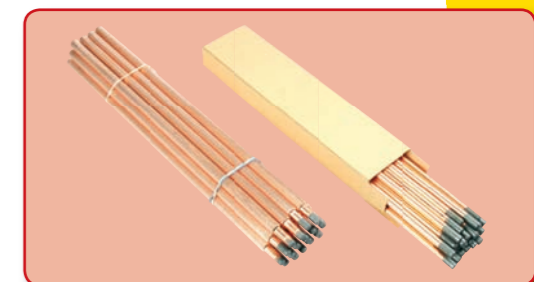
Gas saver also allows welding of titan under low welding current without using other protective systems, thanks this may significantly reduce the consumption of protective gas.

Available in standard version and also for large diameters of torches.



## Electrodes for gouging

length 305 mm	Ø mm	4	5	6	8	10	13	code
pcs in package/cardboard		50/250	50/250	50/250	50/250	50/250	50/250	
Normal (manual gouging)		✓	✓	✓	✓	✓	✓	CRO5-
length 430 mm	Ø mm	10	13	16	19	code		
pcs in cardboard		250	200	150	100			
Jointed (automatic gouging)		✓	✓	✓	✓			CRG4-



## Torch for gouging electrodes

	code
KRIS 10 (for electrodes up to Ø 10 mm)	SKRI-10
K13 (for electrodes up to Ø 13 mm)	SKRI-13





## High flexible copper cables

CABLE SIMPLEX - PVC / CABLE EPROFLEX - RUBBER

Cable cross-section in mm <sup>2</sup>	16	25	35	50	70	95	120	code
Roll length m	100	100	100	100	50	50	50	SCVI
Roll weight kg	19	29	39	50	37	51	65	
	✓	✓	✓	✓	✓	✓	✓	

## Cable Extraflex

Oil resistant cable - non-flammable - high flexibility - working temperature from -25° to + 50° C  
Well handling - high strength - resistance to heat and light- high protection against electric shock

Cross-section mm <sup>2</sup>	Colour	Max. Ø Cu fiber (mm)	Thickness Insulation (mm)	Weight of the cable (kg/m)	code
1 X 35	yellow	0,21	2	0,40	✓
1 X 50	red	0,21	2	0,56	✓



## Plugs

	Typ	25	50	70	code
Cross-section of the cable in mm <sup>2</sup>		16-25	35-50	50-70	SPFP
		✓	✓	✓	

## Connectors

	Typ	25	50	70	95	code
Cross-section of the cable in mm <sup>2</sup>		16-25	35-50	50-70	70-95	SPMM
Male		✓	✓	✓	✓	
Female		✓	✓	✓	✓	

## Complete welding kit

		code
Complete kit with cable 16 mm <sup>2</sup>	✓	SPKT-16

electrode holder MINIMA (2,9 m cable 16 mm<sup>2</sup>) + ground clamp KS 200 (2 m cable 16 mm<sup>2</sup>) + 2x male connector 25 mm + clear welding glass + dark welding glass + welding shield + hammer + brush

		code
Complete kit with cable 25 mm <sup>2</sup>	✓	SPKT-25

electrode holder MINIMA (2,9 m cable 25 mm<sup>2</sup>) + ground clamp KS 200 (2 m cable 25 mm<sup>2</sup>) + 2x male connector 25 mm + clear welding glass + dark welding glass + welding shield + hammer + brush

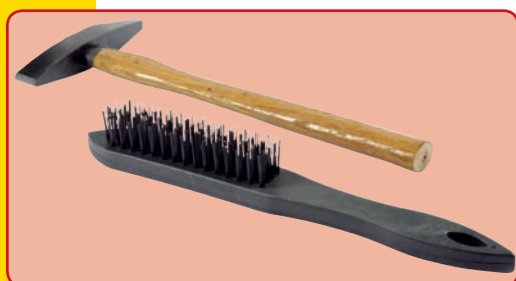
More types of cables and complete kits available in our price list.

## Welding brush (4 lines)

		code
Brush for carbon steel, 1 package = 10 pcs	✓	SPAZ-04
Brush for stainless steel, 1 package = 10 pcs	✓	SPAZ-04 I
Brush for copper, 1 package = 10 pcs	✓	SPAZ-04 C

## Welding hammer

		code
1 package = 5 pcs	✓	SMART-E



## Electrode holders

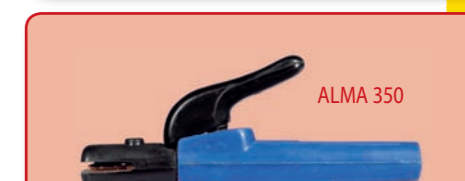
	Packing	Amp. (35%)		code
Minima 200	50 pcs	200	✓	SPPE-20C
Alma 350	24 pcs	350	✓	SPPE-35C
Alma 500	20 pcs	400	✓	SPPE-50C
Optima 3	20 pcs	250	✓	SPOP-35
Optima 5	20 pcs	350	✓	SPOP-50
Unica 4	50 pcs	300	✓	SPPE-40I
Unica 5	50 pcs	350	✓	SPPE-50I
Unica 6	25 pcs	400	✓	SPPE-60I
Pratica 1	50 pcs	260	✓	
Pratica 2	50 pcs	350	✓	
Pratica 3	30 pcs	520	✓	



## SUPERBA

Electrode holder - massive with high performance in terms of heat resistance and impact. Made of brass. SUPERBA 6 has an excellent handle, which is longer and specially designed for long-term welding.

	Amp. MAX	Weight	Ø el. max		code
SUPERBA 4	400 A	550 g	6 mm	✓	SPPS-40
SUPERBA 5	500 A	560 g	6 mm	✓	SPPS-50
SUPERBA 6	600 A	590 g	6 mm	✓	SPPS-60



	Amp. MAX	Weight	Ø el. max		code
SCREW 5	500 A	500 g	6 mm	✓	SPPW-50

## TS 600 - ELECTRODE HOLDER

Electrode holder which is designed for intensive use with excellent heat resistance. This is possible thanks to innovative design.

Packing	Amp. MAX	Weight	Ø el. max	max. cross section of the cable		code
1 ks	360 A (60%)	390 g	6,3 mm	70 mm <sup>2</sup>	✓	SPPT-60



## Cable socket - screwed

For cable with cross-section mm <sup>2</sup>	16	25	35	50	70	code
	✓	✓	✓	✓	✓	SPPC







## Ground clamps

	Amp. (35%)		code
KS 200	200	✓	SPKS-200A
Nebraska 3 Plus	300	✓	SPMR-35I
Nebraska 5 Plus	500	✓	SPMR-50I
Montana 600	500	✓	SPMR-MO6
G 500 Plus	500	✓	SPMG-50I
Screw 6	600	✓	SPMV-60I
M 60 R	600	✓	SPMV-60I



Magnetic swivel ground clamp M60R



Ground clamp Screw 6 - 600A



## Swivel ground clamp, fixed

Massive swivel clamp made from bronze. It prevents cable twisting.

	Weight	Amp. 35%-65%		code
MRF 1500	2,65 kg	1500 A - 1200 A	✓	SPRO-15



## Tanimark marker

1 packing = 10 pcs

Available colours	white	yellow	red	blue	green	black
Ø 3,2 mm	STMB-HI	STMG-LI	STMR-SI	STMB-EU	STMV-DI	STMN-RI
Ø 0,6 mm	STM6-BB	STM6-GG				



## Sidermark marker

Industrial marker, dull, non-erasable, re-lockable

1 packing = 10 pcs

Available colours	white	yellow	red	blue	green	black
CODE	SSMB-HI	SSMG-LI	SSMR-SI	SSMB-EU	SSMV-DI	SSMN-RI



## Markal quik stik marker

Universal marker, ideal for smooth and rough surfaces. It can not be used on wet or oily surfaces. Waterproof, UV resistant and temperatures up to 200 °C. Drying for 5 minutes.

Available colours	white	yellow	red	black
CODE	STQB-HI	STQG-LI	STQR-SI	STQN-RI



## Talc (Steatite)

Talc 10x10x100 mm		code
	✓	ST10-01

1 packing = 50 pcs



## Molybdene detector (Test for stainless steel)

		code
1 bottle allows to make about 100 tests	126,00	SBRI-23





## Anti adhesive products for welding

### SIDER ANTISPRAY

Content 400 ml • 1 cardboard = 24 /25 sprays

	✓	code
Anti adhesive spray without silicone	✓	SBSP-NO

### ECOSIDER – SPRAY WITHOUT SILICONE, ECOLOGIC FRIENDLY 400 ML

Content 400 ml • 1 cardboard = 25 sprays

Content 500 ml • 1 cardboard = 25 sprays

	✓	code
ECOSIDER	✓	SBSP-NE

### ANTISPRAY PASTE FOR MIG TORCHES 300 G (PLASTIC PACKING)

	✓	code
Antispray paste for MIG torches	✓	SAPO-AP

### LIQUID WITHOUT SILICONE

	✓	code
Protect 700 - can 5 l	✓	SBST-NO
Protect 700 - can 25 l	✓	SBSS-NO

## Liquid Sidercooling

Cooling liquid, protects against corrosion. Working temperature from -20°C to +120°C.

	✓	code
Sidercooling - can 5 l	✓	SBRE-05

## INOXIL

Ideal to protect iron or steel parts as frames, doors, bodyworks etc. Resistant up to 700°C. Content 400 ml • 1 cardboard = 12/25 sprays

	✓	code
INOXIL	✓	SBSP-INS

## ALUSIL

Ideal to protect aluminium parts as frames, doors, bodyworks etc. Resistant up to 700°C. Content 400 ml • 1 cardboard = 12/25 sprays

	✓	code
ALUSIL	✓	SBSP-AL

## SIDERZINK – cold galvanizing spray

Spray for recovering surface of galvanized parts when damaged or after adjustments. Fast and entire drift.

Content 400 ml • 1 cardboard = 25 sprays

	✓	code
SIDERZINK	✓	SBZN-CO

## RIVEL / SUPERBALL – air leakage detector

Detector for all types of gas. The fastest safe system to detect leakage of gases in the closed space. Formation of bubbles shows the leak and exposes the smallest losses. Appropriate for flammable and inflammable gases and their mixtures.

Content 400 ml • 1 cardboard = 12/ 24 sprays - RIVEL

Content 500 ml • 1 cardboard = 25 sprays - SUPERBALL

	✓	code
RIVEL	✓	SBSR-GA
SUPERBALL	✓	



## Penetration solutions

Used for detection of surface and ongoing cracks in materials (metals, hard plastics).

Content of the spray 400ml • 1 cardboard = 12 sprays

Content of the can 10 l

	Spray	Can	code	
			Spray	Can
RED - red penetrant	✓	✓	SB35-01	SB38-01
CLEANER - remover	✓	✓	SB36-01	SB41-01
WHITE - white developer	✓	✓	SB37-01	SB39-01

## Liquid for magnetoscopic control

Content of the spray 400ml • 1 cardboard = 12 sprays

Content of the can 10 l

	Spray	Can	code	
			Spray	Can
Liquid for magnetoscopic control Vecoplast	✓	✓	SBVE-CO	SBVE-10
Liquid for magnetoscopic control LK 35	✓	✓	SB40-01	SB40-10

## Pickling paste and gel for stainless steel - Antiox

		✓	code
Paste	1 kg (1 packing = 6 pcs)	✓	SANO-DC
	5 kg (1 packing = 2 pcs)	✓	SANO-DE
Gel	1 kg (1 packing = 6 pcs)	✓	SANG-DC
	5 kg (1 packing = 2 pcs)	✓	SANG-DE
Liquid	Can 10 kg	✓	SANL-T10

Brush 30 mm	✓	SANO-PEM
Brush 50 mm	✓	SANO-PEO

## Passivation of stainless steel - Passix

		✓	code
Gel	1 kg (1 packing = 6 pcs)	✓	SANP-DC
	5 kg (1 packing = 2 pcs)	✓	SANP-DE

## Polish paste for stainless steel - Polish

Liquid polishing paste for stainless steel

		✓	code
1 kg (1 packing = 6 pcs)	✓	SANO-PO1	
5 kg (1 packing = 2 pcs)	✓	SANO-POS	

## Pickling paste for aluminium - Antiox Al

		✓	code
Gel	1 kg (1 packing = 6 pcs)	✓	SAAG-DC

## SIMPLE GREEN - GREEN PRODUCTS FOR INDUSTRIAL CLEANING

### CRYSTAL

Industrial, highly concentrated and effective cleaning and degreasing product intended for use in spray cleaning machine, the pressure and ultrasonic degreasing in industrial and in the tertiary sector. Product has been bestowed since 2000 by the Ministry of the Environment the right to use the trademark "Environmentally friendly product."

		✓	code
Spray 1 l (12 pcs in cardboard)	✓	SGCR-01	
Can 10 l	✓	SGCR-10	

### EXTREME

Industrial, high-performance, water-soluble, cleaning and degreasing product intended for a general cleaning and degreasing of high contaminated surfaces. It is suitable for metal, plastic and painted surfaces by spraying machines, the pressure and ultrasonic degreasing in engineering, aviation and land transport without damaging surfaces.

		✓	code
Spray 1 l (12 pcs in cardboard)	✓	SGEA-01	
Can 10 l	✓	SGEA-10	





## Bloxide - protective measure against corrosion

		code
1 gallon (1 packing = 4 pcs)	✓	SMBL-10
5 gallons (1 packing = 1 pcs)	✓	SMBL-50

1 gallon = 3,785 l  
5 gallons = 18,927 l

## Temperature indicators

### TEMPILSTIK

		code
1 packing = 10 pcs by one single temperature	✓	SPT0
1 packing = 1 pc in transparent cover	✓	SPT2

### TEMPILSTIK TEST KIT

		code
1 packing = 20 pcs by assorted types	✓	SPTT-KI
Temperatures °C: 52 - 66 - 79 - 93 - 107 - 121 - 135 - 149 - 163 - 177 - 191 - 204 - 218 - 232 - 246 - 260 - 288 - 316 - 371 - 427		

### THERMOMELT

		code
1 packing = 12 pcs by one single temperature	✓	SPT4

## Measuring

		code
BRIDGE CAM GAUGE - available for all types of measuring	✓	SZCA-BR
HI-LO - available for tubes measuring	✓	SZCA-HL
HI-COR - available for angle measuring	✓	SZCA-HC



BRIDGE CAM GAUGE

HI-LO

HI-COR

## Flashlight for weld inspection

		code
SIDER PEN-LITE (set with battery)	✓	SPIL-004
MINI MAGLITE® (length 14,5 cm)	✓	SPIL-MML

MINI MAGLITE is representative of new flashlight with robust body made from aluminium alloy, with adjustable beam angle. The light beam is very clear when you set minimum angle (cone). Replacement bulb is included and is located at the end of the lamp. Also includes 2 pcs of AA batteries and belt case. MINI MAGLITE is possible unscrew the head and use it as a stand.

## Pocket microscope

		code
SIDER MICRO 40 X	✓	SPIL-MI



## Portable electrode heater

	Electrodes capacity	Voltage	Regulation		code
F05-220	kg 5	230 AC	-	✓	SFOR-F05-220
F05		48/85 DC	-	✓	SFOR-F05
F15-220	kg 15	230 AC	with thermostat	✓	SFOR-F15-220
F15		48/85 DC		✓	SFOR-F15



## Electrode dryer

Electrode dryer made from steel with 3 inner shelves. Programming provided by the control unit. Electronic or manual program preset.

	Electrodes capacity	Voltage	Max. temperature	Regulation		code
SIDER 5	50 kg	230 V	400 °C	analog	✓	SFOR-050-200
SIDER 30	200 kg	400 V	400 °C	unit	✓	SFOR-200-380

### CHARACTERISTICS

Output	4.5 KW
Maximum drying temperature	370°C
Electrodes capacity Ø 3.2 mm	4500 (circa 200 kg)
Outside dimensions	800 X 880 X 1050 (H) mm
Inside dimensions	560 X 740 X 560 (H) mm
Weight	144 kg



SIDER 30

SIDER 5

## Professional infrared thermometer

Non-contact temperature measurement

			code
Model 550 - red	measurement from -50°C to 550°C	✓	SZTE-882
Model 800 - yellow	measurement from -50°C to 800°C	✓	SZTE-8833



## Professional non-contact thermometer

			code
TEMPIL ESTIK	measurement from 0 °C to 537°C	✓	SZTE-882
TEMPIL ESTIK with certification NIST (*)	measurement from 0 °C to 537°C	✓	SZTE-8833

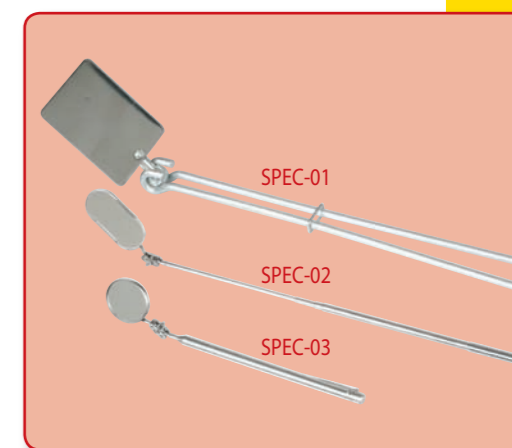
(\*) NIST (National Institute of Technology) - certificate available only with order



## Inspection mirrors

	Handle	Mirrors		code
Rectangular mirror with solid handle	40 cm	70 X 80 mm	✓	SPEC-01
Oval mirror (*)	65 cm	25 X 50 mm	✓	SPEC-02
Round mirror (*)	65 cm	Ø 30 mm	✓	SPEC-03

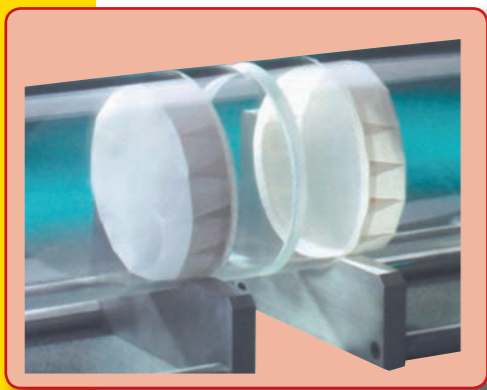
(\*) with magnetic handle



SPEC-01

SPEC-02

SPEC-03



## Soluble paper Dissolvo

Fast soluble paper in water. Fast and economic system for reducing consumption of argon within TIG welding of pipes.

	Thickness	Dimensions			code
Dissolvo paper WLD 35 - sheets	0,10	8 1/2" X 11"	(22 x 28 cm)	✓	SDWL-35
Dissolvo paper WLD 60 - sheets	0,08	15 1/2" X 22"	(40 x 56 cm)	✓	SDWL-60
Dissolvo paper WLD 60 - roll	0,08	15 1/2" X 165'	(40 cm x 50 m)	✓	SDWR-60
Dissolvo paper WLD 60 - roll	0,08	31" X 165'	(80 cm x 50 m)	✓	SDWR-30
Paper DISSOLVO - adhesive strips	0,13	1" X 300'	(25 mm x 100 m)	✓	SD30-01
Paper DISSOLVO - adhesive strips	0,13	2" X 300'	(50 mm x 100 m)	✓	SD30-02

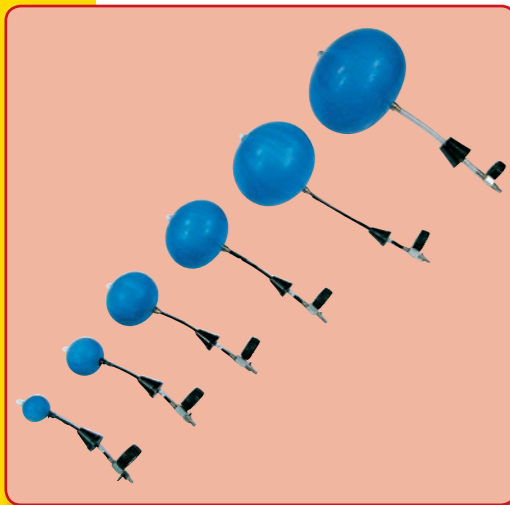


## Stuffing system for welding tubes

Applications for TIG, GMW and PAW welding, manual and mechanic for following materials: steel, steel alloys, stainless steel, nickel and aluminium alloys, reactive metals. Prevents leakage of argon.

Made from aluminium backplate with rubber seal resistant to various temperatures. Rubber sealing is connected with flexible joints.

Available accessories for connecting pipes, elbows and flanges in all sizes.



## Baloon valves for welding

Pneumatic baloon with its own valve. Filling system for low and medium pressure (0.5 bar).

Wide range of products for all sizes of pipes and welding pipes.



## GAP-A-LET SOCKET WELD CONTRACTION RINGS

GAP-A-LET is a split ring that is engineered and designed to give you a pre-measured 1/16" (1,6 mm) minimum gap for socket welds. Made from a certified stainless steel, GAP-A-LET resists corrosion from chemicals, radioactive materials and water.

GAP-A-LET's spring tension makes it fit tightly into all standard sized fittings from 1" to 5". (Non standard sizes are available upon request.) Once inserted into the fitting, the GAP-A-LET ring becomes a permanent part of the join. It will not rattle or vibrate even under extreme pressure.



## Ceramic pads

Ceramic pads, which can be mounted to back side of the weld (using aluminium tape). They provide reliable root penetration. Once-shot using.

Log - 500 mm strips with aluminium tape - width 100 mm.

	Nr. of strips/1 packing	Ø mm		code
Ceramic pad SCT	250	7	✓	SRCE-07AC
	140	9	✓	SRCE-90C
	100	12	✓	SRCE-120C

Flat pad with a groove - 500 mm strips with aluminium tape - width 100 mm.

	Nr. of strips/1 packing	Ø mm		code
Ceramic pads SCPG	60	6	✓	SRCE-06PC
	60	9	✓	SRCE-09PC
	60	12	✓	SRCE-12AC
	60	13	✓	SRCE-13AC
Ceramic pads R200	12	14	✓	SRCC-14C

Other types on request.

## Aluminium adhesive tape

Aluminium welding tapes are used to retain protective gas on the back side of the weld.

		pcs		code
Aluminium adhesive tape	mm 51 x 50 m	5 windings	✓	SRAL - 05
Aluminium adhesive tape	mm 60 x 50 m	4 windings	✓	SRAL - 06
Aluminium adhesive tape	mm 70 x 50 m	4 windings	✓	SRAL - 07

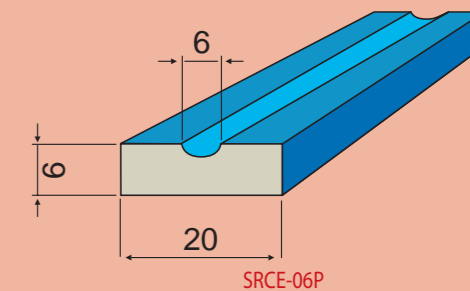
Aluminium tape with glass fiber, which performs the same function as pads. They are used in places that are curved or otherwise difficult to access.

	pcs		code	
Adhesive tape with glass fiber	mm 120 x 30 m*	1 winding	✓	SRAV

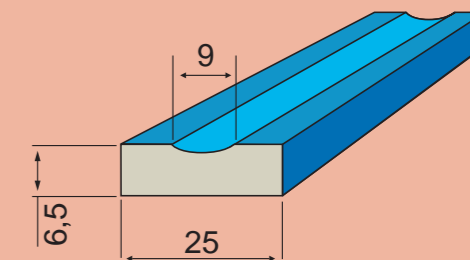
\* width of tape 30x3mm (thickness)



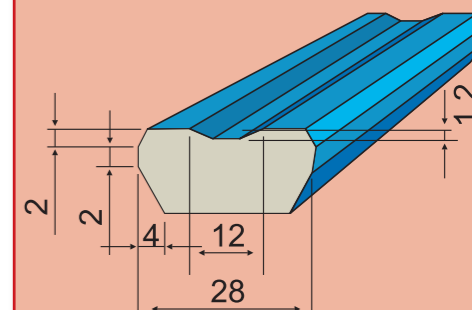
Ceramic pad SCPG



SRCE-06P



SRCE-09P



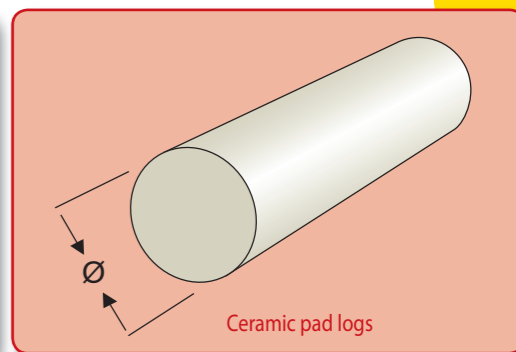
SRCE-12A



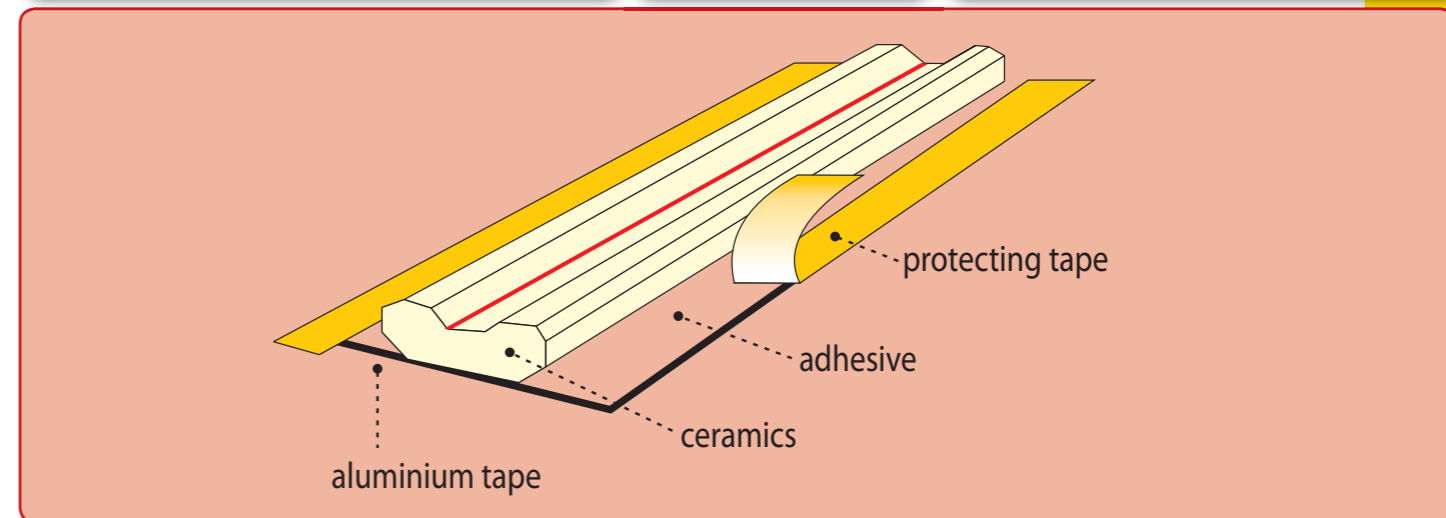
Aluminium adhesive tapes



Tape with glass fiber

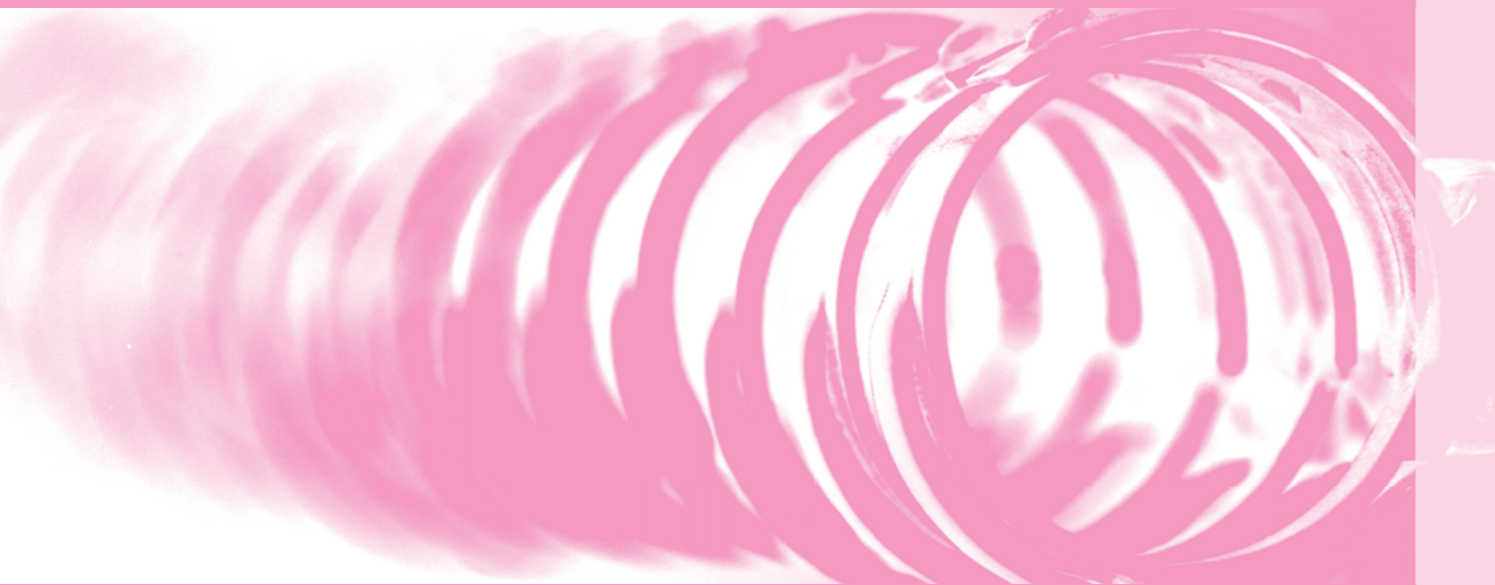


Ceramic pad logs





## RODS FOR OXY-ACETYLENE WELDING AND ALLOYS FOR THERMOHYDRAULICS



## OXY-ACETYLENE AND THERMOHYDRAULICS WELDING

### Rods for hard soldering

#### SILVER SOLDERING RODS WITH CADMIUM

According to EU Regulation nr. 1907/2006 and its subsequent amendments (Regulation nr. 494/11, part XVII) is prohibited with effect from 10.12.2011 use of solder with cadmium content. This provision does not apply to the solders on the market before 10.12.2011.

#### SILVER SOLDERING RODS WITHOUT CADMIUM

Ø mm	type	1		1,5		2	
		bare	coated	bare	coated	bare	coated
AG 20 CF				✓	✓	✓	✓
AG 25 CF					✓		✓
AG 34 CF					✓		✓
AG 40 CF				✓	✓	✓	✓
AG 45 CF				✓	✓	✓	✓
AG 55 CF				✓	✓	✓	✓

Other types on request

Ø mm	Bare rods			Coated rods		
	1	1,5	2	1,5	2	3
Nr. of pcs/1 kg	284	126	71	71	44	23
Code	MB-			MA-		

### Silver soldering rods

Length 500 mm - 1 packing = 10 pcs

Ø mm	1,5		2	
	bare	coated	bare	coated
AG 20 CF coated		✓		✓
AG 40 CF coated		✓		✓

### Table of classification and typical chemical composition

	Chemical composition %					Temperature °C		Density g/cm <sup>3</sup>	DIN 8513
	Ag	Cu	Zn	Cd	Sn	operating	working		
AG 20 CF	20	44	36			750	690-810	8,7	L-AG 20
AG 25 CF	25	40	35			750	700-790	8,7	L - AG 25
AG 34 CF	34	36	27,5		2,5	710	600-690	9,0	L - AG 34 SN
AG 40 CF	40	30	28		2	610	640-700	9,3	L-AG 40 SN
AG 45 CF	45	27	25,5		2,5	610	640-660	9,3	L-AG 45 SN
AG 55 CF	55	21	22		2	660	630-660	9,4	L - AG 55 SN

### Rods for oxy-acetylene soldering

Length 1000 mm - 1 packing = 10 kg

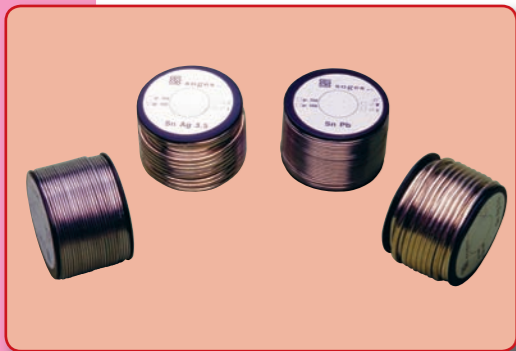
	Ø mm	2				3		4		5		6		code
		2	3	4	5	6	7	8	9	10	11			
Soft Iron		✓	✓	✓									MFER-	
Si Brass		✓	✓	✓					✓			✓	MOSI-	
Ni Brass		✓	✓										MONN-	
Cored wire - ALUMINIUM - packing = 1 kg		✓	✓	✓									MALW-	
Cored wire -Brass - packing = 5 kg		✓	✓										MOSP-	

### Phosphorous rods for hard soldering

Length 500 mm - 1 packing = 1 kg

	Ø mm	2		3		flat wire		code
		2	2x2 (square)	3	3	flat wire	flat wire	
SILCOP 2	CuAg P					✓		MDCA-PT
SILCOP 5	CuAg 0,5 P		✓					MDCB-K2
SILCOP 20	CuAg 2 P	✓						MDCB-02
SILCOP 50	CuAg 5 P	✓			✓			MDCA-
COPPERFOS 65	Cu P 6,5		✓					MDCQ-K2
COPPERFOS 75	CuP 7,5	✓			✓			MDCQ-





## Spools for soft soldering

1 spool = 250 gr • 1 spool = 500 gr

Ø mm spool gr	1,5		2		3		code
	250	500	250	500	250	500	
Sn Ag 3,5			✓	✓			MSA3
Sn Ag 5			✓	✓			MSA5
Sn Pb 50 - cored wire	✓	✓	✓	✓	✓	✓	MSPB
Sn Pb 60 - cored wire		✓		✓		✓	MSP6



## Rods for soft soldering

1 packing = 25 kg

Rods	type	Sn 33	Sn 35	Sn 40	Sn 50	Sn 99	code
		✓	✓	✓	✓	✓	
							MSNV



## Antioxidative agent for hard soldering

1 packing = 250 gr

		code
SAINAL - powder for silver alloys	✓	MDSB-IT
LAITAL ECOPLUS - powder for bronze, brass, copper and iron	✓	MDBL-EC



## Antioxidative paste for tin alloys soldering

1 small bottle = 120 gr

		code
BRIDGIT - paste for copper and bronze soldering	✓	MDBI-IT
STAY CLEAN - for copper, aluminium and stainless steel soldering	✓	MDBL-IT

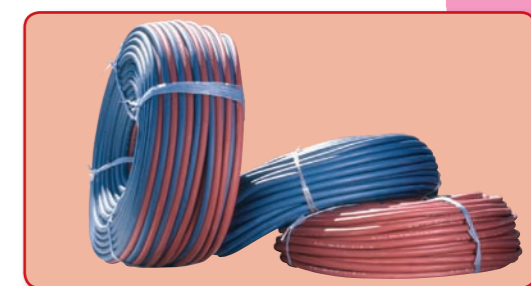


## Rubber hoses for technical gases

In accordance with standard EN 559

1 packing = 50 or 100 m Pressure 2 MPa (20 bar)

	6 x 13 mm	8 x 15 mm	6 x 13 mm + 8 x 15 mm	code
Oxygen (blue)	✓	✓	-	NTGO-
Acetylene (red)	✓	✓	-	NTGA-
DUO (oxygen+acetylene)	✓	✓	✓	NTGB-
DUO (oxygen + Pb)	-	✓	-	NTGB-O8P8



## Rubber hoses for GPL-MPS-GAS (Pb)

In accordance with standard EN 559

1 packing = 50 or 100 m Pressure 2 MPa (20 bar)

	8 x 15 mm	code
orange	✓	NTGP-815



## Rubber hoses - air

In accordance with standard EN 559

1 packing = 50 or 100 m Pressure 2 MPa (20 bar)

					code
Dimensions	6 x 14	8 x 17	10 x 19	13 x 23	NTAC-
Roll weight (kg)	20	30	36	45	
	✓	✓	✓	✓	



## PVC transparent reinforced hose

1 packing = 100 m

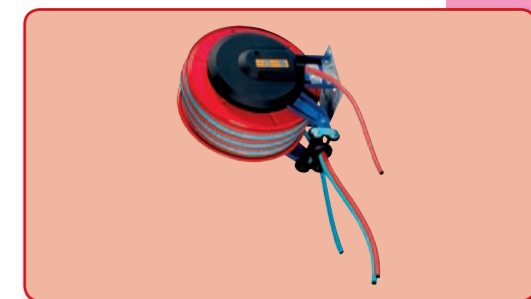
			code
Dimensions	6 x 12	8 x 14	NTTR-
Roll weight (kg)	10	12	
	✓	✓	

## Hose winding

Hose winding for - single and DUO hoses, capacity 20 m

Always wind out only needed part, after finishing work, automatically wind up.

		code
Hose winding 20 m	✓	SARR-TUB



## Safety ring clips for hoses

Rings from galvanized steel

1 packing = 20 pcs

		code
Ring clips for hoses 6x13 mm	✓	NAST-613
Ring clips for hoses 8x15mm	✓	NAST-815



Rings from stainless steel

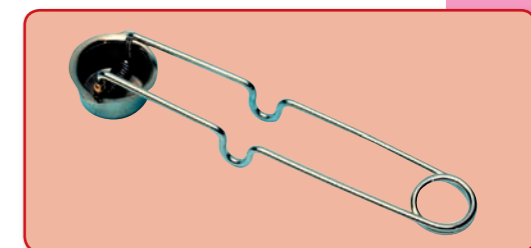
1 packing = 100 pcs

Inner diameter (mm)		code
8,0	✓	NAST-0800I
8,7	✓	NAST-0870I
9,5	✓	NAST-0950I
10,5	✓	NAST-1050I
12,3	✓	NAST-1230I
13,3	✓	NAST-1330I
14,2	✓	NAST-1420I
15,3	✓	NAST-1530I

## Lighter

1 packing = 20 pcs

		code
Lighter	✓	MSL-1960



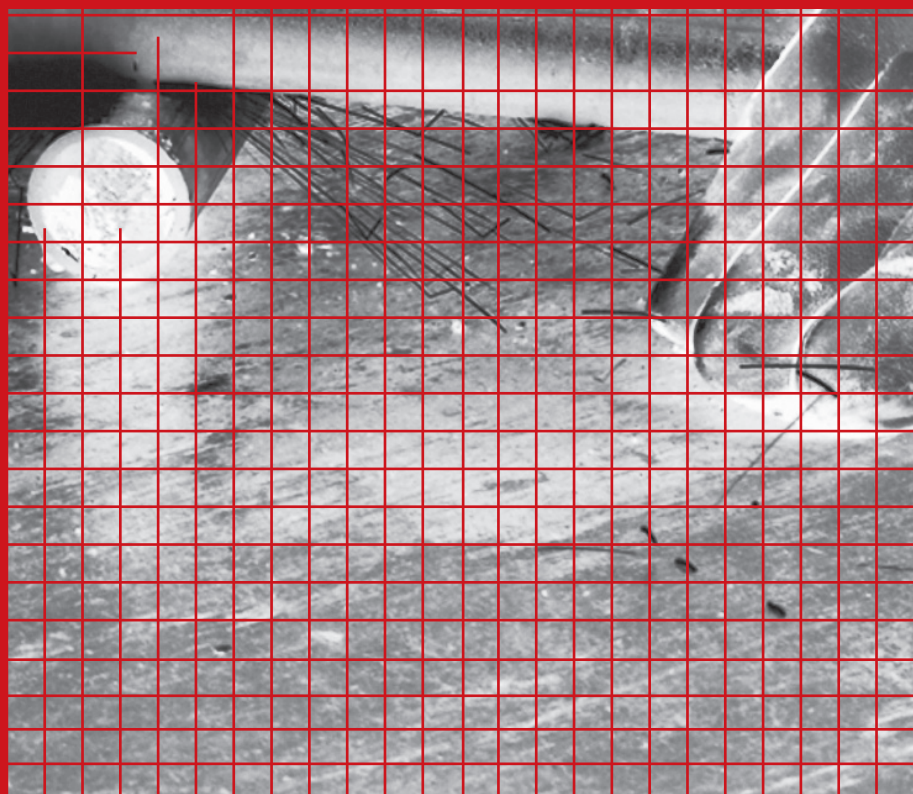
1 packing = 12 pcs

		code
Flints for lighter	✓	MRF-1965



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