

BRAZING PRODUCTS



WE MANUFACTURE WELDING CONSUMABLES & EQUIPMENT

Magmaweld is a manufacturer of Stick Electrodes, MIG/MAG & TIG Wires, Flux Cored Wires, Submerged-Arc Wires and Fluxes, Welding Machines, Welding Ancillary Products and Automation Systems in Turkey. Oerlikon Kaynak Elektrodları ve Sanayi A.Ş. was founded in 1957 in order to manufacture stick electrodes as a licensee of Oerlikon-Buehrle AG.





In the year 1996, in order to reduce costs, to strengthen the leading position in Turkey and turn Magmaweld into a global brand, two old factories in Istanbul were moved to new, state of the art factory in Manisa, situated in the west of Turkey. In 2010 the second factory has been opened also in Manisa to produce high-tech welding equipment as well as to integrate robotic automation systems.

The MAGMAWELD brand came out as an analogy between the molten core of the earth, the MAGMA and the WELDPOOL.

Magmaweld greatly values technical education and has been contributing to the training and education of thousands of welders through regular, free of charge courses since 1961. This service helps to increase consumer awareness and technical competence throughout the industry.

Magmaweld strives for customer satisfaction and process excellence. In order to satisfy customer needs, all questions and remarks about products, training, welding technologies, welding procedures, standards, work safety and automation are processed through the call center at +90 444 WELD (444 93 53) or through live support from www.magmaweld.com where the relevant information is directed to Magmaweld's experts.

BRAZING

Brazing is the method by which same or different metals are welded without being melted with an additional metal (brazing alloy) that melts above 450°C. If the parts to be welded have been designed to be on top of each other, face-to-face or in nested form, the brazing alloy flows into the welding area by capillary effect and provides a firm and tight welding. This brazing method is called capillary brazing. The most important advantage of this process is that it enables the welding of metals without the need for melting of the metals. Thus, the protection of geometric and physical properties of metals is secured. If the welding end of the parts to be welded such as V-, U-, X- is opened and welding is done by filling with brazing alloy,this welding method is called by brazing. The brazing method can be applied for surface coating purposes besides welding purposes.



Copper-Phosphorus / Copper-Phosphorus-Silver Alloys

Used for joining of the copper-phosphorus and copper-copper alloys. The proportions of phosphorus content in these alloys determine the level of viscosity in theusage field. Use of flux for copper-copper welding is not necessary. Used for the brazing of copper-phosphorus -silver brazing alloys, copper-copper and copper-brass welding. Should be used together with BF13 flux for the welding of copper-brass. Since particularly its silver content increases the ductility of the wire, it is used in applications where copper subjected to vibration and thermal stresses and bearing mechanical load is required to be welded with copper. These alloys cannot be used for welding steels and other ferrous metals. It is extensively used in plumbing, electrical industry, air conditioning and cooling sector.

Product Name a	nd Standards	Ag %	Cu %	P %	Sn %	Operating Temperature (°C)	Melting Range (°C)	Recommended Flux	Typical Features
BR 1203 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	CuP 179 CP 203 B-Cu94P 710-890 L-CuP6	-	94	6	-	760	710-890	BF 13	Its cavity-filling capacity is good in workpieces where copper and brass materials cannot provide proper opening. Low viscosity degree Recommended gap between the materials is 0.051 ÷ 0.127 mm (0.002" ÷ 0.005")
BR 1204 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	CuP 180 CP 202 B-Cu93P 710-820 BCuP-2 L-CuP7	-	93	7	-	730	710-820	BF 13	Its cavity-filling capacity is good in workpieces where copper and brass materials cannot provide proper opening. Medium viscosity degree. Recommended gap between the materials is 0.051 \div 0.127 mm (0.002" \div 0.005")
BR 1207 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	CuP 386 CP 302 B-Cu86SnP 650-7 L-CuSn7	-	86	7	7	700	650-700	BF 13	It is a brazing wire with good viscosity especially in copper-brass brazing used in copper and its alloys. It has high viscosity degree. Performs high resistance for corrosion and provides high tensile strenght.
BR 1208 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	CuP 182 CP 201 B-Cu92P 710-770 L-CuP8	-	92	8	-	720	710-770	BF 13	Its cavity-filling capacity is good in workpieces where copper and brass materials cannot provide proper opening. It has high viscosity degree. Recommendedgap between the materials is 0.051 \div 0.127 mm (0.002" \div 0.005")
BR 1301/1		1	92	7	-	740	645-825	BF 13	Suitable for brazing of copper-copper based materials. It has good viscosity feature with a high filling capacity. Recommended for customers who desire lower silver amount.
BR 1301/2 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	CuP 279 CP 105 B-Cu92PAg 645-8 BCuP-6 L-Ag2P	2 25	91	7	-	740	645-825	BF 13	Suitable for brazing of copper-copper copper-brass materials. It has good viscosity feature with a high filling capacity. Recommended for customers who desire lower silver amount.
BR 1301/5 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	CuP 281 CP 104 B-Cu89PAg 645-8 BCuP-3 L-Ag5P	5 15	89	6	-	710	645-815	BF 13	Suitable for brazing of copper-copper copper-brass materials. It has good viscosity feature with a high filling capacity. Suitable for brazing in the kiln under protective atmosphere and inductive heating.
BR 1301/15 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	CuP 284 CP 102 B-Cu80PAg 645-8 BCuP-5 L-Ag15P	15 00	80	5	-	700	645-800	BF 13	Suitable for brazing of copper-copper copper-brass materials. It has excellent viscosity and high ductility due to its high silver content. Suitable for brazing in the kiln under protective atmosphere and inductive heating.

Copper-Zinc Brazing Alloys

It is used for the brazing of steel pipes, copper-zinc alloyed steels, cast irons and copper alloys. It is extensively used for ventilation systems, pipe and bodywork joining in automotive sector, decorations, accessory, metal furniture, hospital furniture, equipments, electrical panels, bathroom boilers, towel warmers, hydraulic-pneumatic equipments and repairing of the textile machinery. It is used with BF 11 or BF 12 fluxes in brazing applications.

Product Name an	nd Standards	Ag %	Cu %	Zn %	Sn %	Ni %	Other %	Operating Temperature (°C)	Melting Range (°C)	Recommended Flux	Typical Features
BR 1101 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	CuP 773 Cu 305 B-Cu48ZnNi(Si) RBCuZn-D L-CuNi10Zn42	890-920	48	Remain	-	10	Si:0.20	910	890-920	BF 11	A copper-zinc brazing wire with good viscosity feature. It is preferred when high tensile strength is desired since it contains nickel.
BR 1102 Ag		1	48	Remain	-	10	Si:0.20	900	890-920	BF 11	A copper-zinc brazing wire with good viscosity feature. It is preferred when high tensile strength is desired since it contains nickel Since it contains silver, it provides better viscosity and a ductile feature.
BR 1210 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Cu 470 Cu 302 B-Cu60Zn(Sn) 8' RBCuZn-A L-CuZn40	- 75-895	61	Remain	0.2	-	-	885	875-895	BF 12	A copper-zinc brazing wire with very good viscosity feature.
BR 1211 H ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Cu 471 Cu 304 B-Cu60Zn(Sn)(Si L-CuZn39Sn	- i)(Mn) 87	60 0-900	Remain	0.2	-	Mn:0.20 Si: 0.20		870-900	BF 12	A copper-zinc brazing wire with very good viscosity feature.
BR 1211 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Cu 671 Cu 306 B-Cu59Zn(Fn)(N L-CuZn39Sn	- i)(Mn)(Si)	59 870 -89	Remain	1	0.5	Mn:0.20 Si: 0.15		870-900	BF 12	A copper-zinc brazing wire with very good viscosity feature. Suitable for brazing of galvanized metals.
BRF 1211 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Cu 671 Cu 306 B-Cu59Zn(Fn)(N L-CuZn39Sn	- i)(Mn)(Si)	59 870 -89	Remain	1	0.5	Mn:0.25 Si: 0.15		870-900	BF 12	A copper-zinc brazing wire with very good viscosity feature. Suitable for brazing of galvanized metals. Provides easy usage in repair and maintenance works since it is coated with flux.
BR 1211 Ag		1	59	Remain	1	0.5	Mn:0.25 Si: 0.15		870-890	BF 12	A copper-zinc brazing wire with very good viscosity feature. Suitable for brazing or galvanized metals. Since it contains silver, i provides better viscosity and a ductile feature.

Silver Brazing Alloys

Silver-containing brazing alloys have low operating temperatures and thanks to their excellent technical properties, they are widely used in mass production and repair-maintenance applications in all industrial sectors where high quality fluids are required among different metals. It is suitable for many different metals except aluminum and aluminum alloys. It is used for metals such as steels, stainless steels, tempered cast irons, copper and alloys, nickel and alloys, etc. For all welding processes other than copper-copper, the use of BF 13 flux is required.

Product Name a	nd Standards	Ag %	Cu %	Zn %	Cd %	Sn %	Ni %	Other %	Operating Temperature (°C)	Melting Range (°C)	Recommended Flux	Typical Features
BR 1303 EN 1044 ISO 3677 DIN 8513	AG 309 B-Cu40ZnAgCd 605 L-Ag 20Cd	20 -765	40	Remain	15	-	-	-	750	605-765	BF 13	It is a brazing wire with good viscosity, a high cavity filling capacity suitable for welding copper and copper alloys, unalloyed and alloyed steels, nickel and nickel alloys and forgeable cast iron. Color harmony with brass is excellent. Recommended material cavity is $0.1 \div 0.25 \text{ mm} (0.004" \div 0.01")$ Contains cadmium.
BR 1304 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Ag 326 AG 307 B-Cu30ZnAgCd 605 B-Ag 33 L-Ag 25Cd	25 - 720	30	Remain	18	-	-	Si:0.05 Maks.	700	605-720	BF 13	Brazing wire intended for general use. Contains cadmium.
BR 1304/SN ISO 17672:2016 EN 1044 ISO 3677 AWS 5.8 DIN 8513	Ag 125 AG 108 B-Cu40ZnAgSn 680 BAg-37 L-Ag 25Sn	25 - 760	40	Remain	-	2	-	Si:0.05 Max.	750	680-760	BF 13	It is a brazing wire with good viscosity, a high cavity filling capacity suitable for welding copper and copper alloys, unalloyed and alloyed steels, nickel and nickel alloys and forgeable cast iron. Intended for general use. It is economical. Provides excellent color harmony with brass. Recommended material gap is $0.05 \div 0.13 \; \text{mm} \; (0.002" \div 0.005")$
BR 1305 ISO 17672:2016 EN 1044 ISO 3677 AWS 5.8 DIN 8513	Ag 330 AG 306 B-Ag30CuCdZn 600 BAg-2a L-Ag 30Cd	30 -690	28	Remain	21	-	-	-	680	600-690	BF 13	It has extremely comfortable viscosity control thanks to long melting range and has high filling ability. Recommended material gap is $0.05 \div 0.13 \text{ mm } (0.002'' \div 0.005'')$ Contains cadmium.
BR 1305/SN ISO 17672:2016 EN 1044 ISO 3677 DIN 8513	Ag 130 AG 107 B-Cu36ZnAgSn 665 L-Ag 30Sn	30 -755	36	Remain	-	2	-	Si:0.05 Max.	750	665-755	BF 13	It is a brazing wire with the lowest operating temperature, containing high amount of silver. Has extremely high mechanical strength. Has good viscosity feature with a high filling capacity in narrow material welding processes.
BR 1306 ISO 17672:2016 EN 1044 ISO 3677 DIN 8513	Ag 340 AG 304 B-Ag40ZnCdCu 595 L-Ag 40Cd	40 -630	19	Remain	20	-	-	-	610	595-630	BF 13	It is a brazing wire with the lowest operating temperature containing high amount of silver. Has extremely high mechanical strength. It has good viscosity feature with high filling capacity in narrow material welding processes. Contains cadmium.
BR 1306/SN ISO 17672:2016 EN 1044 ISO 3677 AWS 5.8 DIN 8513	Ag 140 AG 105 B-Ag40CuZnSn 650 BAg-28 L-Ag 40Sn	40 -710	30	Remain	-	2	-	-	690	650-710	BF 13	It is a brazing wire with a low operating temperature, containing high amount of silver. Has extremely high mechanical strength. Has good viscosity feature with a high filling capacity in narrow material welding processes.

Silver Brazing Alloys

Silver-containing brazing alloys have low operating temperatures and thanks to their excellent technical properties, they are widely used in mass production and repair-maintenance applications in all industrial sectors where high quality fluids are required among different metals. It is suitable for many different metals except aluminum and aluminum alloys. It is used for metals such as steels, stainless steels, tempered cast irons, copper and alloys, nickel and alloys, etc. For all welding processes other than copper-copper, the use of BF 13 flux is required.

Product Name a	and Standards	Ag %	Cu %	Zn %	Cd %	Sn %	Ni %	Other % 1	Operating Temperature (°C)	Melting Range (°C)	Recommended Flux	Typical Features
BR 1311 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Ag 345 AG 302 B-Ag45CdZnCu 605 BAg-1 L-Ag 45Cd	45 5-620	16	Remain	23	-	-	-	620	605-620	BF 13	It is a brazing wire with low operating temperature and good gap-filling capability. In particular, it is extensively used in welding tungsten carbides. Has high mechanical features. Contains cadmium.
BR 1312 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Ag 449 AG 502 B-Ag49ZnCuMnNi 6 BAg-22 L-Ag49	49 680-705	16	Remain	-	4.5	-	Mn: 7.5	700	680-705	BF 13	It is a brazing wire containing nickel and manganese. It is especially used fo welding tungsten carbides, titanium and tantalum containing materials.
BR 1313 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Ag 350 AG 301 B-Ag50CdZnCu 620 BAg-1a L-Ag 50Cd	50 0-640	16	Remain	17	-	-	-	640	620-640	BF 13	It is a brazing wire with low operating temperature and good gap-filling capability. In particular, it is extensively used in welding tungsten carbides. Has high mechanical features. Contains cadmium.
BR 1314 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Ag 155 AG 103 B-Ag55ZnCuSn 630 L-Ag 55Sn	55 0-660	21	Remain	-	2	-	-	650	630-660	BF 13	It is a brazing wire coated with flux and with a very good viscosity feature in low operating temperature. High corrosion resistance. Resistant to salt water. It has extensive usage in food, medical and marine industry.
BR 1318 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Ag 220 AG 206 B-Cu43ZnAg(Si) 69 L-Ag 20	20 0-810	44	Remain	-	-	-	Si:0.04	780	690-810	BF 13	It is suitable for the brazing of copper and copper alloys not containing cadmium and with good viscosity, unalloyed and alloyed steels, nickel and nickel alloys and forgeable cast iron. Intended for general use.
BR 1319 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Ag 134 AG 106 B-Cu36AgZnSn 630 L-Ag 34Sn	34	36	Remain	-	3	-	-	710	630-730	BF 13	Suitable for brazing of copper-copper based materials. It has good viscosity feature with a high filling capacity. Recommended for customers who desire lower silver amount.
BR 1320 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Ag 145 AG 104 B-Ag45CuZnSn 640 BAg-36 L-AG 45Sn	45 0-680	27	Remain	-	3	-	-	670	640-680	BF 13	It is a brazing wire extensively used in general welding of copper and steel materials.

Silver Brazing Alloys

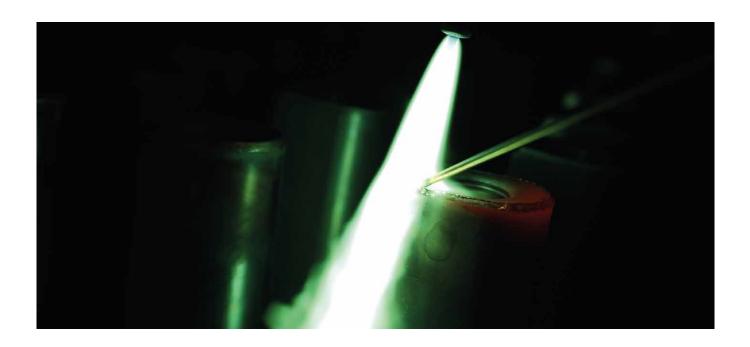
Silver-containing brazing alloys have low operating temperatures and thanks to their excellent technical properties, they are widely used in mass production and repair-maintenance applications in all industrial sectors where high quality fluids are required among different metals. It is suitable for many different metals except aluminum and aluminum alloys. It is used for metals such as steels, stainless steels, tempered cast irons, copper and alloys, nickel and alloys, etc. For all welding processes other than copper-copper, the use of BF 13 flux is required.

Product Name a	and Standards	Ag %	Cu %	Zn %	Cd %	Sn %	Ni %	Other %	Operating Temperature (°C)	Melting Range (°C)	Recommended Flux	Typical Features
BRF 1303 EN 1044 ISO 3677 DIN 8513	AG 309 B-Cu40ZnAgCd 605 L-Ag 20Cd	20 - 765	40	Remain	15	-	-	-	750	605-765	BF 13	It is a brazing wire with good viscosity, coated with flux and with a high cavity filling capacity suitable for welding copper and copper alloys, unalloyed and alloyed steels, nickel and nickel alloys and forgeable cast iron. Intended for general use. It is economical. Provides excellent color harmony with brass. Recommended material gap is $0.1 \div 0.25 \text{mm} (0.004" \div 0.01")$. Contains cadmium
BRF 1305 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Ag 330 AG 306 B-Ag30CuCdZn 600 BAg-2a L-Ag 30Cd	30 -690	28	Remain	21	-	-	-	680	600-690	BF 13	It is a brazing wire with good viscosity, coated with flux and with a low operating temperature suitable for welding copper and copper alloys, unalloyed and alloyed steels, nickel and nickel alloys and forgeable cast iron. Recommended material gap is 0.05 \div 0.13 mm (0.002" \div 0.005"). Contains cadmium.
BRF 1306 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Ag 340 AG 304 B-Ag40ZnCdCu 595 L-Ag 40Cd	40 -630	19	Remain	20	-	-	-	610	595-630	BF 13	It is a brazing wire coated with flux and with the lowest operating temperature, containing high amount of silver. Has extremely high mechanical strength. Has good viscosity feature with a high filling capacity in narrow material welding processes. Contains cadmium.
BRF 1314 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Ag 155 AG 103 B-Ag55ZnCuSn 630 L-Ag 55Sn	55 -660	21	Remain	-	2	-	-	650	630-660	BF 13	It is a brazing wire coated with flux and with a very good viscosity feature in low operating temperature. High corrosion resistance. Resistant to salt water. It has extensive usage in food, medical and marine industry.
BRF 1319 ISO 17672:2016 EN 1044 EN ISO 3677 DIN 8513	Ag 134 AG 106 B-Cu36AgZnSn 630 L-Ag 34Sn	34 -730	36	Remain	-	3	-	Si:0.05 Max.	710	630-730	BF 13	It is coated with flux and has good viscosity feature and extensively used especially in welding copper and brass materials. Provides excellent color harmony with brass.
BRF 1320 ISO 17672:2016 EN 1044 EN ISO 3677 AWS 5.8 DIN 8513	Ag 145 AG 104 B-Ag45CuZnSn 640 BAg-36 L-Ag 45Sn	45 - 680	27	Remain	-	3	-	-	670	640-680	BF 13	Flux coated brazing wire. It has extensive usage in joining of the copper and steel.

Aluminum Brazing Alloys

Our wires are used for brazing of aluminum and aluminum alloys and aluminum-copper alloys have high tensile strength and high corrosion resistance. The use of flux is extremely important since it does not show the annealing color in the flame brazing of aluminum and aluminum alloys.

Product Name	and Standards	AI %	Si %	Zn %	Cu %	Fe %	Mn %	Other %	Operating Temperature (°C)	Melting Range (°C)	Recommended Flux	Typical Features
TAL 4047 EN ISO 18273 EN 1044 ISO 3677 AWS 5.10 DIN 8513	Al 112 AL 104 B-Al88Si 575-585 ER 4047 Al-Si 12	88	12	-	0.20	0.60	0.15	-	585	575-585	BF 14	It is a brazing wire intended for welding aluminum-aluminum and aluminum alloys. It is extensively used in automotive sub-industry and white goods sector.
ALF 4004		2	-	98	-	-	-	-	420	385-420	-	It is a brazing wire intended for welding aluminum-aluminum and aluminum-copper alloys. It is extensively used in automotive sub-industry and white goods sector. Contains non-corrosive flux.
ALF 4047 EN ISO 18273 EN 1044 ISO 3677 AWS 5.10 DIN 8513	Al 112 AL 104 B-Al88Si 575-585 ER 4047 Al-Si 12	88	12	-	0.20	0.60	0.15	-	585	575-585	BF 14	It is a brazing wire extensively used for welding aluminum and aluminum alloys. It is especially used in automotive sub-industry and white goods sector in mass production facilities. Essence of the wire contains non-corrosive flux.



BRAZING SOLDER FLUXES

Special chemical fluxes applied to the surface and on the brazing material before the brazing process take a liquid form at 50°C-100°C below the melting point of the brazing alloy and perform the following tasks: To dissolve the oxides on the surface chemically, to prevent oxidation that may occur during pre-annealing, to provide easy spreading of the brazing alloy on and to wet the work piece by reducing the surface tension of the brazing alloy in liquid form, to ensure slow cooling of the welded area in some cases, to report that the approximate brazing process has started melting before the brazing alloy. This is particularly an important issue in aluminum and its alloys that do not show annealing color.

Product Name a Standards	ind	Operating Temperature (°C)	Product Code	Box Weight (kg)	Fields of Application and Properties
BF 11 DIN 8511	F-HS 2	750-950	8060002W05	0.50	It is a flux used in combination with brazing wires of copper-zinc and copper-zinc-nickel alloy and in the brazing of steel and cast iron. It cleans the surface before the brazing process and prevents oxidation during brazing, allowing the additional wire winding the material. After the brazing process, the surface residual fluxes can be removed by mechanical methods, by means of applying a mechanical treatment in hot water, by immersing the parts in water while they are hot or by using special cleaning solutions.
BF 12 DIN 8511	F-HS 2	800-950	8060102W05	0.50	It is a flux used in the brazed welding of copper-zinc and copper-zinc-copper alloy brazing wires and steels, galvanized steel and brass and copper alloys. It cleans the surface before the brazing process and prevents oxidation during brazing, allowing the additional wire winding the material. After the brazing process, the surface residual fluxes can be removed by mechanical methods, by means of applying a mechanical treatment in hot water, by immersing the parts in water while they are hot or by using special cleaning solutions.
BF 13 DIN 8511	F-HS 1	550-850	8060302W05 8060304W05	0.50 1.00	It is a flux used in combination with brazing wires containing silver. It is a flux used in the brazed welding of steels, stainless steels, cast iron, nickel and nickel alloys, copper and copper alloys with silver containing alloys. It cleans the surface before the brazing process and prevents oxidation during brazing, allowing the additional wire winding the material. After the brazing process, the surface residual fluxes can be removed by mechanical methods, by means of applying a mechanical treatment in hot water, by immersing the parts in water while they are hot or by using special cleaning solutions.
BF 14 AWS/ASME SFA-3. DIN 8511	.0 FB 1-C F-LH 1	500-600	8060502K05 8060504M15	0.50 1.00	It is used in the brazing of aluminum and its alloys. It cleans the surface before the brazing process and shows the start time of brazing. It prevents oxidation during brazing, allowing additional metal to wrap the material. Flux residues are corrosive. For this reason, it must be cleaned with warm alkaline solution after brazing.



PROPERTIES OF SOME METALS







Alloy	Specific Weight (gr/cm3)	Melting Range (°C)	Tensile Strength (N/mm²)
Steel	7.7 - 7.85	1450-1520	340-1800
Grey Cast Iron	7.1 - 7.3	1150-1250	150-400
Austenitic Stainless Steel	7.8 - 7.9	1440-1460	600-800
Mg Alloys	1.8 - 1.83	590-650	180-300
Al Alloys	2.6 - 2.85	570-655	100-400
Zn Alloys	5.7 - 7.2	380-420	140-300
Brass	8.25	900-950	250-600
Bronze	8.56-8.9	880-1040	200-300

BRAZING PACKAGING INFORMATION

Cardboard Boxes



Height (mm)	Width (mm)	Length (mm)	Average Weight (kg)
63	204	208	2
102	301	305	10

Plastic Boxes



Height	Width	Length	Average Weight
(mm)	(mm)	(mm)	(kg)
61	22	330	1

Envelope Packaging



Width	Length	Average Weight
(mm)	(mm)	(kg)
70	530	1

TIG and Oxy-Gas Welding Wires



Diameter (mm)	Length (mm)	Average Weight (kg)	
50	525	2.5	
50	1000	5	

NOTES



