

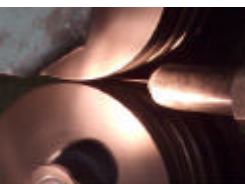
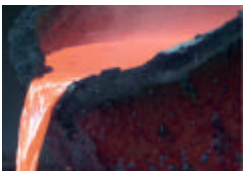


METALES DE APORTACION, S.A.

Carretera General s/n, 39792-Gajano (Cantabria) SPAIN



BRAZING ALLOYS AND FLUXES



Introduction

Metales de Aportación, S.A. is a manufacturer since 1973 of Brazing Alloys and Flux.

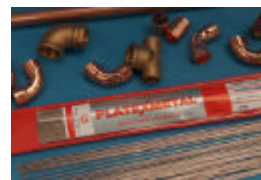
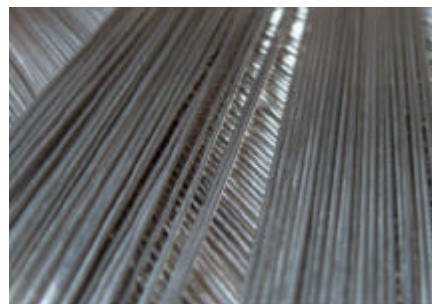
We present a large range of applies alloys and fluxes manufactured by METALES DE APORTACIÓN, S.A., for brazing.

Our alloys and products are submitted to a rigorous quality control, according to inernational norms.

Our research and technical department is at your entire disposal for any consultations about non ferrous metals you may care to make.

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SILVER BRAZING ALLOYS-CADMIUM CONTAINING



ALLOY (Ref.)	COMPOSITION %				MELTING RANGE		WORKING TEMPERATURE °C	SPECIFICATION			RECOMMENDED FLUX
	Ag	Cu	Zn	Others	Solidus	Liquidus		TENSILE STRENGTH Kg/mm ²	ELONGATION %	DENSIFIED gr/cc	
PLATEX AG-500 Cd	50	15	17	18 Cd	620	640	640	45	30	9,5	Platex Flux- C
PLATEX AG-450 Cd	45	16	17	22 Cd	620	635	620	45	30	9,4	Platex Flux- C
PLATEX AG-400 Cd	40	19	21	20 Cd	595	630	610	42	30	9,3	Platex Flux- C
PLATEX AG-340 Cd	34	22	24	20 Cd	610	680	640	40	30	9,1	Platex Flux- C
PLATEX AG-300 Cd	30	28	21	21 Cd	600	690	680	38	30	9,2	Platex Flux- C
PLATEX AG-250 Cd	25	33	26	16 Cd	605	720	710	35	30	8,6	Platex Flux- C
PLATEX AG-200 Cd	20	40	25	15 Cd	605	765	750	35	32	8,8	Platex Flux- C
PLATEX AG-170 Cd	17	41	25	17 Cd	590	760	760	34	28	8,6	Platex Flux- C
PLATEX AG-120 Cd	12	50	31	7 Cd	620	825	800	32	32	8,5	Platex Flux- C

ALLOY (Ref.)	International Norms					Applications
	DIN 8513	AWS-ASTM	BS-1845	AFNOR	ISO 3677	

PLATEX AG-500 Cd	L-Ag50Cd	B Ag-1a	AG1 *	-	B Ag 50 Cd Zn Cu 620-640	500 cd, 450 cd y 400 cd are alloys with melting range lowest Steel, stainless steel, nickel and its alloys, metal carbide, copper and its alloys, silver and its alloys, gold and its alloys, platinum and tungsten
PLATEX AG-450 Cd	L-Ag45Cd	B Ag-1	-	45A1	B Ag 45 Cd Zn Cu 620-635	
PLATEX AG-400 Cd	L-Ag40Cd	-	AG10	40A1	B Ag 40 Cd Zn Cu 595-630	
PLATEX AG-340 Cd	L-Ag34Cd *	B Ag-2	AG11	35A1	B Ag 34 Cd Zn Cu 610-680	
PLATEX AG-300 Cd	L-Ag30Cd	B Ag-2 a	AG12	30A1	B Ag 30 Cd Zn Cu 600-690	
PLATEX AG-250 Cd	L-Ag25Cd *	B Ag-33	-	-	B Cu 33 Zn Ag Cd 605-720	
PLATEX AG-200 Cd	L-Ag20Cd	-	-	20A2	B Cu 33 Zn Ag Cd 605-720	
PLATEX AG-170 Cd	-	-	-	-	B Cu 41 Zn Ag Cd 590-760	
PLATEX AG-120 Cd	L-Ag12Cd *	-	-	-	B Cu 50 Zn Ag Cd 620-825	

* Don't match exactly with norm

SUPPLY FORMS

✗ No cumple con RoHS

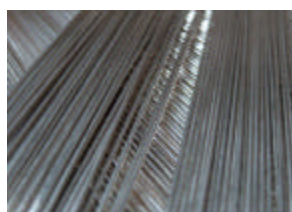
Silver Brazing Alloys: Packages of 1 kilo and tubes of 5 kilos

Rod of standard diameter 1 - 1,5 - 1,6 - 1,7 - 2 - 3 mm.
Standard length 500 mm.

Silver Brazing Alloys-Coated: Packages of 1 kilo and tubes of 2,5 kilos

Rods of inside diameter 1,5 - 2 - 3 mm.
Standard length 500 mm.
Standard colour : White

For special order, we can manufacture in rods of diameter and length different to the standard and rolls, rings, preformed, laminated, powder.



SILVER BRAZING ALLOYS -CADMIUM FREE



ALLOY (Ref.)	COMPOSITION %				MELTING RANGE		WORKING TEMPERATURE °C	SPECIFICATION			RECOMMENDED FLUX
	Ag	Cu	Zn	Others	Solidus	Liquidus		TENSILE STRENGTH Kg/mm ²	ELONGATION %	DENSIFIED gr/cc	
PLATEX AG-440	44	30	26	-	680	740	730	40	25	8,9	Platex Flux- C
PLATEX AG-250	25	41	34	-	680	795	780	45	15	8,5	Platex Flux- C
PLATEX AG-200	20	44	36	Si	690	810	810	40	20	8,4	Platex Flux- C
PLATEX AG-120	12	48	40	-	800	830	830	40	25	8,3	Platex Flux- C
PLATEX AG-550 Sn	56	22	17	5 Sn	620	650	650	40	25	9,4	Platex Flux- C
PLATEX AG-450 Sn	45	27	25	3 Sn	640	680	670	40	25	9,2	Platex Flux- C
PLATEX AG-400 Sn	40	30	28	2 Sn	640	700	690	40	25	9,1	Platex Flux- C
PLATEX AG-340 Sn	34	36	27	3 Sn	630	730	710	43	20	9,0	Platex Flux- C
PLATEX AG-300 Sn	30	36	32	2 Sn	650	750	740	43	18	8,8	Platex Flux- C

ALLOY (Ref.)	International Norms					Applications
	DIN 8513	AWS-ASTM	BS-1845	AFNOR	ISO 3677	

PLATEX AG-440	L-Ag 44	B Ag-5	AG15	44 A1	B Ag 44 Cu Zn 680-740	Alloys cadmium free for using in applications where is forbidden to use, like in a food industry Steel, copper, nickel, silver and its alloys.
PLATEX AG-250	L-Ag 25	-	AG17	25 A1	B Cu 41 Zn Ag 680-795	
PLATEX AG-200	L-Ag 20	B Ag-28	-	20 A1	B Cu 45 Zn Ag Si 690-810	
PLATEX AG-120	L-Ag 12	-	-	-	B Cu 48 Zn Ag 800-830	
PLATEX AG-550 Sn	L-Ag 55 Sn	B-Ag-7	-	-	B Ag 56 Cu Zn Sn 620-650	
PLATEX AG-450 Sn	L-Ag 45 Sn	-	-	-	B Ag 45 Cu Zn Sn 640-680	
PLATEX AG-400 Sn	L-Ag 40 Sn	-	AG-20	-	B Ag 40 Cu Zn Sn 640-700	
PLATEX AG-340 Sn	L-Ag 34 Sn	-	-	-	B Cu 36 Ag Zn Sn 630-730	
PLATEX AG-300 Sn	L-Ag30Sn	-	AG21	-	B Cu36 Zn Ag Sn 650 - 750	

SUPPLY FORMS



Silver Brazing Alloys: Packages of 1 kilo and tubes of 5 kilos

Rod of standard diameter 1 - 1,5 - 1,6 - 1,7 - 2 - 3 mm.

Standard length: 500 mm.

For special order, we can manufacture in rods of diameter and length different to the standard, and coated rods, rolls, rings, preformed, laminated, powder, etc.



COPPER-PHOSPHORUS-SILVER ALLOYS



ALLOY (Ref.)	COMPOSITION %				MELTING RANGE		WORKING TEMPERATURE °C	SPECIFICATION			RECOMMENDED FLUX
	Ag	Cu	Zn	Others	Solidus	Liquidus		TENSILE STRENGTH Kg/mm ²	ELONGATION %	DENSIFIED gr/cc	
PLATEX F-AG-150	15	80	-	5 P	650	800	710	25	10	8,4	Platex Flux
PLATEX F-AG-50	5	89	-	6 P	650	800	710	25	8	8,2	Platex Flux
PLATEX F-AG-20	2	92	-	6,5 P	650	820	710	25	6	8,2	Platex Flux
PLATEX F-80	-	92	-	8 P	710	750	740	25	3	8	Platex Flux
PLATEX F-70	-	93	-	7 P	710	825	720	25	4	8,1	Platex Flux
PLATEX F-60	-	94	-	6 P	710	845	730	25	5	8,1	Platex Flux

ALLOY (Ref.)	International Noms					Applications
	DIN 8513	AWS-ASTM	BS-1845	AFNOR	ISO 3677	

PLATEX F-AG-150	L-Ag 15 P	B Cu P-5	CP1	05 B1	B Cu 80 Ag P 650-800	copper and its alloys To braze copper with copper it's not necessary to use flux
PLATEX F-AG-50	L-Ag 5 P	B Cu P-3	CP4	06 B2	B Cu 89 P Ag 650-800	
PLATEX F-AG-20	L-Ag 2 P	B Cu P-6	CP2	06 B1	B Cu 92 P Ag 650-820	
PLATEX F-80	L-Cu P 8	B Cu P-2	-	08 B1	B Cu 92 P 710-750	
PLATEX F-70	L-Cu P7	-	CP3	07 B1	B Cu 93 P 710-750	
PLATEX F-60	L-Cu P 6	-	CP6	-	B Cu 94 P 710-845	

SUPPLY FORMS:



Copper Phosphorus Brazing Alloys: Packages of 1 kilo

Rod of standard diameter 1,5 - 2 - 3 - 4 mm.
Standard Length: 500 - 600 and 1000 mm.

Copper-Phosphorus-Silver Alloys: Packages of 1 kilo.

Rod of standard diameter 1,5 - 2 - 3 - 4 mm.
Standard length : 500 mm.

For special order, we can manufacture in rods of diameter and length different to the standard and rolls, rings, preformed, laminated, powder, etc.



BRASS ALLOYS



ALLOY (Ref.)	COMPOSITION %				MELTING RANGE		WORKING TEMPERATURE °C	SPECIFICATION			FLUX
	Ag	Cu	Zn	Others	Solidus	Liquidus		TENSILE STRENGTH	ELONGATION	DENSIFIED	
								Kg/mm ²	%	gr/cc	
BRASS MS-60	-	60	40	Si	890	900	900	48	35	8,4	Polflux
BRASS MS-59	-	59	40	Si,Sn,Mn	870	890	900	45	35	8,4	Polflux
BRASS S-3	-	57	40	3 Ni, Si	890	910	920	55	30	8,5	Polflux

ALLOY (Ref.)	INTERNATIONAL NORMS					Applications
	DIN 8513	AWS-ASTM	BS-1845	AFNOR	ISO 3677	

BRASS MS-60	L-Cu Zn 40	-	CZ6	60 C1	B Cu 60 Zn Si 890 - 900	Steel, copper, copper alloys, iron.
BRASS MS-59	L-Cu Zn 39 Sn	-	CZ7A	-	-	
BRASS S-3	-	-	-	-	-	

SUPPLY FORMS



Brass Alloys : Package of 10 and 20 kilos.
Rod of standard diameter 1,5 - 2 - 3 - 4 - 5 - 6 - 8 - 12 mm.
Standard length : 500 and 1000 mm.

Brass Alloys-Coated : Packages of 3 kilos
Rod of standard diameter 1,5-2-3-4 mm.
Estándar length : 500 mm.
Standard colour : Pink

For special order, we can manufacture in rods of diameter and length different to the standard, and rolls, rings, preformed, laminated, powder, etc.



FLUXES



REFERENCE	PARENTS METAL	ALLOY	NORM DIN 8511	MELTING RANGE °C
PLATEXFLUX LIQUIDOFLUX-7	copper, copper alloys	Cu-P-Ag Cu-P	F-SH1	500-800
PLATEXFLUX-A PLATEXFLUX-C	copper, copper alloys, steel, nickel and its alloys	Ag-Cu-Zn-Cd Ag-Cu-Zn-Sn Ag-Cu-Zn	F-SH1	500-800
POLFLUX POLFLUX-F	steel, copper and copper alloys	Cu-Zn-Ni Cu-Zn-(Si)	F-SH1/2	700-1000
METAPALFLUX	aluminium, aluminium alloys	Al-Si Al-Mg	F-SH1	370-600

SUPPLY FORMS:

Fluxes : Powder and paste. Packages of 100, 250, 500, 750, 1.000 grs.



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