



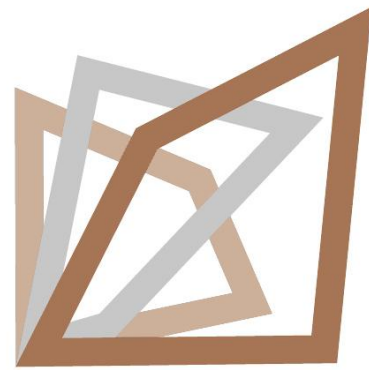
Alloys As [ES]

Producto formato:

Alloys [ES]

Características técnicas:

Aleaciones con alto contenido en níquel (Alloys) [ES]



BRONMETAL

Alloys As

Producto formato:

Alloys

Características técnicas:

Aleaciones de alto contenido en níquel (Alloys)



ALEACIONES

ALLOY	MATERIAL CONDITION	CHEMICAL COMPOSITION															TYPICAL MECHANICAL PROPERTIES				NATIONAL SPECIFICATION						
		Ni	Cr	Fe	Mn	C	Cu	Si	S	Al	Ti	Mo															
825	ANNEALED	Min	38,0	19,5	22,0	-	-	1,5	-	-	-	0,6	2,5	%													BS 3076 NA16 ASTM B425 UNS N08825
		Max	46,0	23,5	-	1,0	0,05	3,0	0,5	0,03	0,2	1,2	3,5	%													
718	SOLUTION ANNEALED & PRECIPITATION TREATED (AGED) SOLUTION ANNEALED	Min		C	Mn	Si	P	S	Cr	Ni	Mo	Cb+Ta	Ti	Al	Co	B	Cu	Fe								ASTM B637 AMS 5662 AMS 5663 UNS N07718	
		Max		0,08	0,035	0,35	0,15	0,15	21,0	55,0	3,3	5,5	1,15	0,8	1,0	0,006	0,3		Bal	%							
X-750	SOLUTION ANNEALED & PRECIPITATION TREATED (AGED)	Min		C	Mn	Si	S	Cr	Co	Cb+Ta	Ti	Al	Fe	Cu	Ni											ASTM B637 AMS 5668 UNS N07750	
		Max		0,08	1,0	0,5	0,01	17,0	1,0	1,2	2,75	1,0	9,0	0,5	-	%											

ALLOY	MATERIAL CONDITION	CHEMICAL COMPOSITION																TYPICAL MECHANICAL PROPERTIES				NATIONAL SPECIFICATION												
		C	Mn	Si	P	S	Cr	Ni	Mo	Ti	Al	V	B	Fe																				
A-286	SOLUTION ANNEALED & PRECIPITATION TREATED (AGED)	Min	-	-	-	-	13,5	24,0	1,0	1,9	-	0,1	0,001	Bal	%							Tensile Strength,min Yield Strength (0,2 % offset), min Elongation in 2" or 50mm (or 4D), min Reduction of Area Hardness (Brinell)	PSI 145,000 105,000	MPa 1000 724	% 15 18 30-35 Rc	ASTM B638 GRADE 660 TYPE 2 * MEETS THE REQUIREMENTS OF ASTM A453 GRADE 660B AMS 5731 AMS 5732 UNS K66286								
		Max	0,08	2,0	1,0	0,04	0,3	16,0	27,0	1,5	2,35	0,35	0,5	0,01		%																		
C-276	SOLUTION ANNEALED		Mo	Cr	Fe	W	Co	C	Si	Mn	V	P	S	Ni								Tensile Strength,min Yield Strength (0,2 % offset), min Elongation in 2" or 50mm (or 4D), min	PSI 100,000 41,000	MPa 690 283	% 40	ASTM B574 W NR 2,4602 UNS N10276								
		Min	15,0	14,5	4,0	3,0	-	-	-	-	-	-	-	-	Bal	%																		
		Max	17,0	16,5	7,0	4,5	2,5	0,01	0,08	1,0	0,35	0,04	0,03		%																			
80A	SOLUTION ANNEALED & PRECIPITATION TREATED (AGED)		C	Si	Mn	S	Ag	Al	B	Bi	Co	Cr	Cu	Fe	Pb	Ti	Ni					Tensile Strength,min Yield Strength (0,2 % offset), min Elongation in 2" or 50mm (or 4D), min	PSI 142,000 86,000	MPa 980 590	% 20	BS 3076 NA20 BS 2HRI ASTM B637 W NR 2,4952 UNS N07080								
		Min	0,04	-	-	-	-	1,0	-	-	-	18,0	-	-	-	1,8	Bal	%																
		Max	0,1	1,0	1,0	0,015	0,0005	1,8	0,008	0,0001	2,0	21,0	0,2	1,5	0,002	2,7		%																

ALLOY	MATERIAL CONDITION	CHEMICAL COMPOSITION												TYPICAL MECHANICAL PROPERTIES				NATIONAL SPECIFICATION			
		Al	V	C	Fe	O	N	H	Ti												
TITANIUM 6AL-4V	ANNEALED	Min	5,5	3,5	-	-	-	-	-	-	-	%				Tensile Strength,min 0,2% Proof Stress, min Elongation over 2", min Reduction in Area, min Hardness (Rockwell)	PSI	MPa 897 828 (Typical)	% 10 25 36 Rc	ASTM B348 GRADE 5 AMS 4928 BS 2TA11 BS 7252:PT3 MIL-T-9047	
		Max	6,75	4,5	0,08	0,3	0,2	0,05	0,0125	Bal	%										
MARAGING TYPE 250	SOLUTION TREATED		C	Ni	Co	Mo	Ti	Al	Mn	Si	Fe				Tensile Strength,min Yield Strength Reduction in Area, min Elongation % (4d)	PSI	MPa 1815 1760 60,8	% 12,6	AMS 6512 S162 (DTD 5212) MIL-S-46850 GR.250 W NR 1,6359		
		Min	-	17,0	7,0	4,6	0,3	0,05	-	-	Bal	%									
		Max	0,03	19,0	8,5	5,2	0,5	0,15	0,1	0,1		%									
MARAGING TYPE 300	SOLUTION TREATED		C	Ni	Co	Mo	Ti	Al	Mn	Si	Fe				Tensile Strength,min Yield Strength Reduction in Area, min Elongation % (4d)	PSI	MPa 2020 1975 53,0	% 11,5	AMS 6514 MIL-S-46850 GR.300 W NR 1,6358		
		Min	-	17,0	8,0	4,6	0,5	0,05	-	-	Bal	%									
		Max	0,03	19,0	9,5	5,2	0,9	0,15	0,1	0,1		%									
Ph 13/8 Mo	SOLUTION TREATED		C	Ni	Cr	Mo	Al	Mn	Si	Fe				Tensile Strength,min Yield Strength Reduction in Area, min Elongation % (4d)	PSI	MPa 1413 1310 60,0	% 10,0	AMS 5629 ASTM-A-693/XM.13 W NR 1,4534			
		Min	-	7,5	12,25	2,0	0,9	-	-	Bal	%										
		Max	0,05	8,5	13,25	2,5	1,35	0,1	0,1		%										