AMS 5629 - Ph 13-8MO Stainless Steel

Typical Applications

Fasteners

1 431511313					
Valves					
Fittings					
Petrochemical Components					
Aircraft Structural parts					
PH 13/8 MO is a precipitation hardening stainle specifications.	ess steel alloy that conforms to the AMS 5629,	, AMS 5864, AMS 5862			
This material is characterised by excellent strettemperatures.	ngth, corrosion resistance, and toughness at b	ooth room and elevated			
PH 13/8 MO (uns s13800) is often used in aerospace, chemical processing, and power generation applications where high strength and corrosion resistance are essential. The material is not particularly easy to work with due to its high strength and toughness, which can make cutting and machining difficult. However, with the proper equipment and techniques, it is possible fabricate and form PH 13/8 MO into complex shapes and components.					
It is a medium to high strength material achieve good resistance to stress corrosion. PH 13/8MeVacuum Arc Remelting (VAR).					
,	Technical specification				
	Related Specifications				
	AMS 5629				
	AMS 5862				
	UNS S13800				
	W.Nr 1.4534				
	Specific Gravity				
7.76 g/cm3					
	r.re granis				
C	hemical Composition (WT %)				
	Min	Max			
С	-	0.05			

possible to

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Si	-	0.10
Mn	-	0.10
Р	-	0.01
S	-	0.008
Cr	12.24	13.25
Мо	2.00	2.50
Ni	7.50	8.50
Al	0.90	1.35
N	-	0.010
Fe	Bal	-

Typical Mechanical Properties in the Annealed Condition

	-	-	H950	H1000	H1025	H1050	H1100	H1150
0.2% Proof Stress	MPA	Min	1413	1310	1207	1138	931	621
Tensile Strength	MPA	Min	1517	1413	1276	1207	1034	931

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Elongation	%	Min	10	10	11	12	14	14
Reduction of area	%	Min	45	60	50	50	50	50
Reduction of area	%	Min	35	40	45	45	50	50
Hardness	HRC	Min	45	43	41	40	34	30

Need more information? Get in touch

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