

# FERRITIC AND MARTENSITIC STEELS, INCL. PRECIPITAION HARDENING STEELS

<b>Application Segments</b>	;			
Aerospace				
Available Product Var	iants			
	Semi-Finished Products /		Plates	ations at the end of the data sheet (pdf).
	sively to long products. I	lease observe the c	etaliea explait	ations at the end of the data sheet (pai).
Product Description				
				rs, wire, forgings up to 12.0 inches (305 mm) in and stock of any size for forging.
It is a martensitic precipitatio	n hardenable chromium	-nickel-copper-moly	bdenum steel	possessing high strength and toughness.
martensitic type steels up to	700 °F (371 °C), but usag able of being precipitation	e is not limited to su on heat treated to te	ch application	and high strength exceeding that of 12Cr s. This steel can be used in the solution heat as high as 180 ksi (1241 MPa) with good ductility
Certain processing procedure	es and service conditions	may cause these p	roducts to bec	ome subject to stress-corrosion cracking.
Process Melting				
Airmelted + ESR				
Applications				
> Aerospace	> Other Aerospace Co	emps.	>	Structural parts (Aerosp)
Technical data				
Material designation	Stando	ards		
Custom 450	Market	5773	AMS	-





### FERRITIC AND MARTENSITIC STEELS, INCL. PRECIPITAION HARDENING STEELS

#### Chemical composition (wt. %)

С	Si	Mn	P	S	Cr	Мо	Ni	Cu	Nb
max. 0.05	max. 1.00	max. 1.00	max. 0.020	max. 0.015	14.00 to 16.00	0.50 to 1.00	6.00 to 7.00	1.25 to 1.75	min. 8xC

Related to AMS 5773 type 1

#### **Delivery condition**

min. 862   126	
min. 655   95	
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## Round Bars and Wire Rod (if any)

Diameter						MOQ	Length						Tolerance	
mm inch		kg	lbs	m		ft								
ROLLED														
12.50	-	55.00	0.492	-	2.165	850	1,874	3.00	-	4.00	9.84	-	13.12	IT h/k 11
55.01	-	120.00	2.166	-	4.724	2,650	5,842	3.00	-	4.00	9.84	-	13.12	IT h/k 11
120.01	-	140.00	4.725	-	5.512	2,650	5,842	3.00	-	5.00	9.84	-	16.40	IT h/k 14
FORGED														
140.01	-	203.20	5.512	-	8.000	2,400	5,291	2.00	-	5.00	6.56	-	16.40	IT h/k 14

**Long Products**: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

**Sheet & Plates:** Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

Semi-Finished Products: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact the business unit Semi Finished Products of voestalpine BÖHLER Edelstahl GmbH & Co KG.

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#### voestalpine BÖHLER Edelstahl GmbH & Co KG

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