

Material: UNS N08007

Standard Specification for Castings, Austenitic, for Pressure-Containing Parts

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS Castings, Austenitic, for Pressure-Containing Parts

Application: Intended for Valves, Pumps, General Engineering, Automobile and Other Industries Grade

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment															
Carbon	C %	0.070 max.	Solution Annealing															
Silicon	Si %	1.500 max.																
Manganese	Mn %	1.500 max.																
Phosphorus	P %	0.040 max.																
Sulphur	S %	0.040 max.																
Chromium	Cr %	19.000 - 22.000																
Nickel	Ni %	27.500 - 30.500																
Molybdenum	Mo %	2.000 - 3.000																
Copper	Cu %	3.000 - 4.000																
Iron	Fe %	Balance																
-	-	-	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>425 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>170 min.</td> </tr> <tr> <td>Elongation in %</td> <td>35 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	425 min.	Yield Strength in Mpa	170 min.	Elongation in %	35 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 CN7M	ASME	USA	Casting
1.45	WN	Germany	Casting
SCS 23	JIS	Japan	Centrifugal Cast, Steel, Pipes
GX 5 NiCrCuMo 29-21	UNI	Italy	Casting
F.8417	UNE	Spain	Casting
A743 CN7M	ASTM	USA	Casting
A744 CN7M	ASTM	USA	Casting

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