

Material: UNI Fe E 420

Standard Specification for Low Alloy Steel; Hot Finished Hollow Sections of Unalloyed Quality Steel and Special Alloy Steel for Structural Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: UNI Fe E 420 Low Alloy Steel; Hot Finished Hollow Sections of Unalloyed Quality Steel and Special Alloy Steel for Structural Purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.600 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400 max.		
Nickel	Ni %	0.700 max.		
Molybdenum	Mo %	0.400 max.		
Copper	Cu %	0.600 max.		
Vanadium	V %	0.020 - 0.200		
Niobium	Nb %	0.015 - 0.060	Mechanical Properties	
Aluminium	Al %	0.015 min.	Tensile Strength in Mpa	470 - 590
Titanium	Ti %	0.200 max.	Yield Strength in Mpa	400 min.
Iron	Fe %	Balance	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
			Hardness in HRC	91 max.
			Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13855	UNS	USA	Casting
SA-487 6A	ASME	USA	Casting
SA-487 6B	ASME	USA	Casting
A487 6A	ASTM	USA	Casting
A487 6B	ASTM	USA	Casting
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Customer Care: +91-99090 45075 Email: info@icastllp.com