



## Material - CSN 422744

### Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - CSN 422744 Alloy Steel Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.110 - 0.190	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.500		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.700		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.400 - 0.600		
Vanadium	V %	0.200 - 0.350		
P + S	P% + S%	0.060 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   550 - 650 Yield Strength in Mpa   300 min. Elongation in %   16 min. Reduction of Area in %   22 min. Hardness in HB   141 - 183 Impact in Joule   200 J @ RT	
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J21610	UNS	USA	Casting
1.7706	EN	European Union	Casting
1.7706	DIN	Germany	Casting
G 17 CrMoV 5-10	AFNOR NF	France	Casting
G 17 CrMoV 5-10	UNI	Italy	Casting
L 17 HMF	PN	Poland	Casting
A356 9	ASTM	USA	Casting

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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