

Material - UNS K11542

Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS K11542 Alloy Steel Casting

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel

Chemical Composition Heat Treatment C % Carbon 0.380 - 0.450 Silicon 0.200 - 0.350 Si % Mn % 0.750 - 1.000 Manganese Phosphorus Ρ% Annealing or Normalising or Hardening + Tempering 0.040 max. 0.040 max. Sulphur S % Chromium 0.800 - 1.100 Cr % Nickel Ni % 0.250 max. Molybdenum Mo % 0.150 - 0.250 **Mechanical Properties** Copper Cu % 0.350 max. 0.030 - 0.060 Tensile Strength in Mpa Selenium Se % 621 - 1516 Yield Strength in Mpa Iron Fe % Balance 725 min. Elongation in % 5 min. _ _ _ **Reduction of Area in %** 20 min. _ Hardness in HB 187 - 241 _ _ _ _ Impact in Joule 25.1 - 25.7 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J14049	UNS	USA	Casting
4140	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4140	AMS	USA	Bar and Forging
4140	AISI	USA	Forging, Bar, Wire, and Shape
K14047	UNS	USA	Steel
A732 8Q	ASTM	USA	Casting
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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