



Material - SAE SMnC443

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Valve

Group - Ferrous Mild Steel Alloys

Sub Group - SAE SMnC443 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Valve Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Valve

Chemical Composition			Heat Treatment	
Carbon	C %	0.400 - 0.460		
Manganese	Mn %	1.350 - 1.650	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	Р%	0.030 max.		olizing or Hardoning and
Sulphur	S %	0.030 max.		
Chromium	Cr %	0.350 - 0.700		
Silicon	Si %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	650 min.
-	-	-	Yield Strength in Mpa	360 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardn <mark>ess in HB</mark>	207 max.
_	-	-	Impa <mark>ct in Joule</mark>	

Cross Reference Table				
Material	Standard	Country	Country Grade Belong to the Industry	
G15470	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1547	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1547	SAE	USA	Bar and Steel	
SMnC443	JIS	Japan	Steel	
NV 2	SAE	USA	Valve	
A 576 15L47	ASTM	USA	Steel and Bar	
A 510 1547	ASTM	USA	Wire Rod, Round Wire and Steel	

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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