

## 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		
Carbon	C %	0.400 - 0.460
Manganese	Mn %	1.350 - 1.650
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	0.350 - 0.700
Silicon	Si %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As Raw or Annealing or Normalizing or Hardening and Tempering	

Mechanical Properties	
Tensile Strength in Mpa	650 min.
Yield Strength in Mpa	360 min.
Elongation in %	10 min.
Reduction of Area in %	40 min.
Hardness in HB	207 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	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

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