

Material: GOST 110G13L

Standard Specification for Rails type P65, P50, P43

Group: Ferrous Austenitic Manganese Steel Alloy

Sub Group: GOST 110G13L Rails type P65, P50, P43

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	1.100 - 1.300
Silicon	Si %	0.300 - 0.900
Manganese	Mn %	11.500 - 16.500
Phosphorus	P %	0.090 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	654 - 830
Yield Strength in Mpa	360 - 380
Elongation in %	34 - 53
Reduction of Area in %	-
Hardness in HB	186-229
Impact in Joule	300 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
BW10	BS	British	Casting
X 120 Mn 12	DIN	Germany	Steel
Z 120 M 12	AFNOR NF	France	Steel
SCMnH 1	JIS	Japan	Casting
G X 120 Mn 12	UNI	Italy	Casting
J91109	UNS	USA	Casting
A128 Grade A	ASTM	USA	Casting

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