



Material - EN 1.0457

Standard Specification for Steel Pipes for Pipelines for Combustible Fluids; Pipes of Requirements Class B

Group - Ferrous Mild Steel Alloys

Sub Group - EN 1.0457 Steel Pipes for Pipelines for Combustible Fluids; Pipes of Requirements Class B

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

Grade Belongs to the Industry - Pipes

Chemical Composition			Heat Treatment	
Carbon	C %	0.160 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	1.100 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.300 max.		
Molybdenum	Mo %	0.100 max.		
Copper	Cu %	0.250 max.		
Nitrogen	N %	0.012 max.		
Aluminium	Al %	0.015 - 0.060	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	415 - 655
-	-	-	Yield Strength in Mpa	245 - 440
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13005	UNS	USA	Casting
1.0484	DIN	Germany	Pipes
13030	CSN	Czech Republic	Steel
20MB5	AFNOR NF	France	Cold Rolled, Strip
230 - 450 W	JIS	Japan	Casting
3	AS	Australia	Hot Rolled Bar
A487 2A	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

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