



Material - DIN 1.0484

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

Group - Ferrous Mild Steel Alloys

Sub Group - DIN 1.0484 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 %	0.170 max.	Annealing or Normalising or Hardening + Tempering															
Silicon	Si %	0.400 max.																
Manganese	Mn %	1.200 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 %	0.300 max.																
Nitrogen	N %	0.012 max.																
Aluminium	Al %	0.015 - 0.060	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>415 - 760</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>290 - 440</td> </tr> <tr> <td>Elongation in %</td> <td>21 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>40 J @ RT</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	415 - 760	Yield Strength in Mpa	290 - 440	Elongation in %	21 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	40 J @ RT
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Niobium	Nb %	0.050 max.																
Vanadium	V %	0.050 max.																
Titanium	Ti %	0.040 max.																
Iron	Fe %	Balance																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.0457	EN	European Union	Pipes
J13005	UNS	USA	Casting
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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