GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10269 23MnB3 I 1.5507

Standard Specification for Steel and Nickel Alloys for Fasteners with Specified Elevated and/or Low Temperature Properties

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10269 23MnB3 I 1.5507 Steel and Nickel Alloys for Fasteners with Specified Elevated and/or Low Temperature Properties

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.210 - 0.250
Silicon	Si %	0.150 max.
Manganese	Mn %	0.800 - 1.000
Phosphorus	P %	0.015 max.
Sulphur	S %	0.015 max.
Aluminium	Al %	0.020 - 0.080
Boron	B %	0.0008 - 0.0050
Chromium	Cr %	0.250 - 0.350
Copper	Cu %	0.250 max.
Titanium	Ti %	0.060 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	800 - 950
Proof Strength in Mpa	640 min.
Elongation in %	14 min.
Reduction of Area in %	52 min.
Hardness in HBW	-
Impact in Joule	40 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
500/2 OL 42.3 kf	STAS	Romania	Steel
600 OT 400-3	STAS	Romania	Casting
2592 WSt 3 kp	BDS	Bulgaria	Steel
2592 WSt 3 sp	BDS	Bulgaria	Steel
2592 WSt 3 ps	BDS	Bulgaria	Steel
3100 A 1	B.S.	United Kingdom	Casting
84023/06 St 0 S-b	PN	Poland	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.