GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A437 Grade B4B

Standard Specification for Alloy-Steel Turbine-Type Bolting Material Specially Heat Treated for High-Temperature Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A437 Grade B4B Alloy-Steel Turbine-Type Bolting Material Specially Heat Treated for High-Temperature Service

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.200 - 0.250
Manganese	Mn %	0.500 - 1.000
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.200 - 0.500
Nickel	Ni %	0.500 - 1.000
Chromium	Cr %	11.000 - 12.500
Molybdenum	Mo %	0.900 - 1.250
Vanadium	V %	0.200 - 0.300
Tungsten	W %	0.900 - 1.250
Aluminium	Al %	0.050 max.
Titanium	Ti %	0.050 max.
Tin	Sn %	0.040 max.
Iron	Fe %	Balance
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	1000 min.
Yield Strength in Mpa	720 min.
Elongation in %	13 min.
Reduction of Area in %	30 min.
Hardness in HB	331 max.
Impact in Joule	14 @ RT

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S42225	UNS	USA	Steel
K91352	UNS	USA	Steel
A 959 S42225	ASTM	USA	Steel
A 1028 Grade D	ASTM	USA	Steel and Bars
A 437 Grade B4C	ASTM	USA	Steel
SA-437 Grade B4B	ASME	USA	Steel
SA-437 Grade B4C	ASME	USA	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.