GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A437 Grade B4D

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A437 Grade B4D 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 %	0.360 - 0.440
Manganese	Mn %	0.450 - 0.700
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.200 - 0.350
Chromium	Cr %	0.800 - 1.150
Molybdenum	Mo %	0.500 - 0.650
Vanadium	V %	0.250 - 0.350
Aluminium	Al %	0.015 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Stress Relieved

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	720 min.
Elongation in %	18 min.
Reduction of Area in %	50 min.
Hardness in HB	302 max.
Impact in Joule	34 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K14072	UNS	USA	Steel
E 29-043 42 CDV 4	AFNOR NF	France	Steel and Pipe
A 193 B16	ASTM	USA	Steel
1506 670-860	B.S.	United Kingdom	Steel and Bars
17240 40 CrMoV 4 7	DIN	Germany	Steel
17240 1.7711	DIN	Germany	Steel
SA-437 Grade B4D	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.