GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A131 Grade D DH40

Standard Specification for Structural Steel for Ships

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A131 Grade D DH40 Structural Steel for Ships

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.180 max.
Manganese	Mn %	0.900 - 1.600
Silicon	Si %	0.100 - 0.500
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Aluminium	Al %	0.015 min.
Niobium	Nb %	0.020 - 0.050
Vanadium	V %	0.050 - 0.100
Titanium	Ti %	0.020 max.
Copper	Cu %	0.350 max.
Chromium	Cr %	0.200 max.
Nickel	Ni %	0.400 max.
Molybdenum	Mo %	0.080 max.
Iron	Fe %	Balance
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	510 - 650
Yield Strength in Mpa	390 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	41 @ -20˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
5521 E32	GOST	Russia	Plates
8324 A 32	STAS	Romania	Plates
GL-D 32 (S 315 G 2 S)	DIN	Germany	Steel
1.0514	DIN	Germany	Steel
GL-A 32 (S 315 G 1 S)	DIN	Germany	Steel
92147 AH 32	PN	Poland	Plates
92147 DH 32	PN	Poland	Plates

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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