GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A453 Grade 665

Standard Specification for High-Temperature Boiting Materials, with Expansion Coefficients Comparable to Austenitic Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A453 Grade 665 High-Temperature Boiting Materials, with Expansion Coefficients Comparable to Austenitic Stainless Steels

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.080 max.
Manganese	Mn %	1.250 - 2.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.100 - 0.800
Nickel	Ni %	24.000 - 28.000
Chromium	Cr %	12.000 - 15.000
Molybdenum	Mo %	1.250 - 2.250
Titanium	Ti %	2.700 - 3.300
Aluminium	Al %	0.250 max.
Copper	Cu %	0.250 max.
Boron	B %	0.010 - 0.070
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S66545	UNS	USA	Steel
A 959 Type 665	ASTM	USA	Steel
A 959 S66545	ASTM	USA	Steel
A 453 Grade 662	ASTM	USA	Steel
5734	AMS	USA	Bars, Wire, Forging and Tubing
SA-453 Grade 665 Class B	ASME	USA	Steel
SA-453 Grade 665 Class A	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.