



## Material - BS 3100 Grade A3

### Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS 3100 Grade A3 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.450 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
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-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   540 min. Yield Strength in Mpa   295 min. Elongation in %   14 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   18 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 216 WCB	ASTM	USA	Casting
SA 216 WCB	ASTM	USA	Casting
A660 Grade WCB	ASTM	USA	Casting
A660 Grade WCA	ASTM	USA	Casting
SA 216 WCA	ASME	USA	Casting
J02502	UNS	USA	Casting
1.0619	EN	European Union	Casting

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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