



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - BS 10216-2 EN 1.0345

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS 10216-2 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Steel and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.160 max.	Normalising Forming	
Silicon	Si %	0.350 max.		
Manganese	Mn %	1.200 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.300 max.		
Molybdenum	Mo %	0.080 max.		
Copper	Cu %	0.300 max.		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.010 max.	Mechanical Properties	
Titanium	Ti %	0.040 max.	Tensile Strength in Mpa	360 - 500
Vanadium	V %	0.020 max.	Yield Strength in Mpa	235 min.
Cr + Cu + Mo + Ni	Cr % + Cu % + Mo % + Ni %	0.700 max.	Elongation in %	23 min.
Iron	Fe %	Balance	Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	27 min. @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.0348	EN	European Union	Steel and Tube
UHI/ P195GH	DIN	Germany	Steel and Tube
1.0348	EN	European Union	Steel and Tube
1.0348	DIN	Germany	Steel and Tube
1004	AS	Australia	Steel and Tube
10848	GOST	Russia	Sheet and Strip
2C10	UNI	Italy	Plate, Sheet, Strip, Coil and Flats

**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)**

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.

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