



## Material - UNS J94202

**Standard Specification for Castings, Austenitic, for Pressure-Containing Parts**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - UNS Castings, Austenitic, for Pressure-Containing Parts**

**Application - Intended for Valves, Pumps, General Engineering, Automobile and Other Industries**

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.200	Solution Annealing	
Silicon	Si %	1.750 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	23.000 - 27.000		
Nickel	Ni %	19.000 - 22.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      450 min. Yield Strength in Mpa      195 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CK20	ASTM	USA	Casting
SA-351 Grade CK20	ASME	USA	Casting
1.4843	WN	Germany	Round and Flat Wire
SCS 18	JIS	Japan	Centrifugal Cast Steel Pipes
Ch25N20	GOST	Russia	Precision Alloys
H 23 N 18	PN	Poland	Heat Resisting Steel
T 25 NiCr 250	STAS	Romania	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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