GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A451 CPF8C

## Standard Specification for Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service

**Group - Ferrous Stainless Steel Alloys**
**Sub Group - ASTM A451 CPF8C Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service**
**Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries**
**Grade Belongs to the Industry - Steel and Pipe**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.080 max. |
| Manganese | Mn % | 1.500 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.040 max. |
| Silicon | Si % | 2.000 max. |
| Nickel | Ni % | 9.000 - 12.000 |
| Chromium | Cr % | 18.000 - 21.000 |
| Niobium | Nb % | 0.008 - 1.000 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Solution Annealing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 485 min. |
| Yield Strength in Mpa | 205 min. |
| Elongation in % | 30 min. |
| Reduction of Area in % | - |
| Hardness in HB | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| J92710 | UNS | USA | Steel |
| EN 10213-4 1.4552 | DIN | Germany | Steel |
| 3100 347 C 17 | BS | British | Steel |
| G 5121 SCS 21 | JIS | Japan | Steel and Pipe |
| J 405 347 | SAE | USA | Steel |
| A 744 Grade CF-8C | ASTM | USA | Steel |
| A 743 Grade CF-8C | ASTM | 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**

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