



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A743 CA28MWV

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A743 / A743M Casting, Iron-Chromium-Nickel, corrosion Resistant Casting, for General Application

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|--|--|
| Carbon | C % | 0.200 - 0.280 | Annealing or Hardening + Tempering | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 0.500 - 1.000 | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 11.000 - 12.500 | | |
| Nickel | Ni % | 0.500 - 1.000 | | |
| Molybdenum | Mo % | 0.900 - 1.250 | | |
| Vanadium | V % | 0.200 - 0.300 | | |
| Tungsten | W % | 0.900 - 1.250 | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 965 min. Yield Strength in Mpa 760 min. Elongation in % 10 min. Reduction of Area in % 24 min. Hardness in HB 302 - 352 or 269 max. Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 422 | AISI | USA | Bar, Wire, Shape and Forging |
| 1.4935 | DIN | Germany | Casting |
| SUH 616 | JIS | Japan | Bar and Wire |
| 20 VNiMoCr 120 | STAS | Romania | Casting |
| S42100 | UNS | USA | Casting |
| X 20 CrMoWV 12-1 | DIN | Germany | Casting |
| A176 Type 422 | ASTM | USA | Plate, Sheet and Strip |

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.

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