

## Material: ASTM A890 5A

### Standard Specification for Castings, Iron-Chromium-Nickel-Molybdenum Corrosion-Resistant, Duplex (Austenitic/Ferritic) for General Application

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A890 / A890M Iron-Chromium-Nickel-Molybdenum Corrosion-Resistant, Duplex (Austenitic/Ferritic) for General Application

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Casting

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon               | C %  | 0.030 max.      | Solution Annealing      |          |
| Silicon              | Si % | 1.000 max.      |                         |          |
| Manganese            | Mn % | 1.500 max.      |                         |          |
| Phosphorus           | P %  | 0.040 max.      |                         |          |
| Sulphur              | S %  | 0.040 max.      |                         |          |
| Chromium             | Cr % | 24.000 - 26.000 |                         |          |
| Nickel               | Ni % | 6.000 - 8.000   |                         |          |
| Molybdenum           | Mo % | 4.000 - 5.000   |                         |          |
| Nitrogen             | N %  | 0.100 - 0.300   |                         |          |
| Iron                 | Fe % | Balance         |                         |          |
| -                    | -    | -               | Mechanical Properties   |          |
| -                    | -    | -               |                         |          |
| -                    | -    | -               |                         |          |
| -                    | -    | -               |                         |          |
| -                    | -    | -               |                         |          |
| -                    | -    | -               |                         |          |
| -                    | -    | -               |                         |          |
|                      |      |                 | Tensile Strength in Mpa | 690 min. |
|                      |      |                 | Yield Strength in Mpa   | 515 min. |
|                      |      |                 | Elongation in %         | 18 min.  |
|                      |      |                 | Reduction of Area in %  | -        |
|                      |      |                 | Hardness in BHN         | -        |
|                      |      |                 | Impact in Joule         | -        |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| A995 5A               | ASTM     | USA            | Casting                      |
| G X2CrNiMoN26-7-4     | AFNOR NF | France         | Casting                      |
| 1.4469                | EN       | European Union | Casting                      |
| GX2CrNiMoN26-7-4      | DIN      | Germany        | Casting                      |
| GX2CrNiMoN25-7-4      | DIN      | Germany        | Casting                      |
| J93404                | UNS      | USA            | Casting                      |
| 1.4469                | DIN      | Germany        | Casting                      |

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