

## Material: AMS 430

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications

Group: *Ferrous Stainless Steel Alloys*

Sub Group: *AMS 430 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications*

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

Grade Belongs to the Industry: *Sheet, Bar, Wire, Shape and Forging*

| Chemical Composition |      |                 | Heat Treatment                     |          |
|----------------------|------|-----------------|------------------------------------|----------|
| Carbon               | C %  | 0.120 max.      | Annealing or Hardening + Tempering |          |
| Silicon              | Si % | 1.000 max.      |                                    |          |
| Manganese            | Mn % | 1.000 max.      |                                    |          |
| Phosphorus           | P %  | 0.040 max.      |                                    |          |
| Sulphur              | S %  | 0.030 max.      |                                    |          |
| Chromium             | Cr % | 16.000 - 18.000 |                                    |          |
| Iron                 | Fe % | Balance         |                                    |          |
| -                    | -    | -               |                                    |          |
| -                    | -    | -               | Mechanical Properties              |          |
| -                    | -    | -               |                                    |          |
| -                    | -    | -               |                                    |          |
| -                    | -    | -               |                                    |          |
| -                    | -    | -               |                                    |          |
| -                    | -    | -               |                                    |          |
| -                    | -    | -               |                                    |          |
| -                    | -    | -               |                                    |          |
|                      |      |                 | Tensile Strength in Mpa            | 448 min. |
|                      |      |                 | Yield Strength in Mpa              | 241 min. |
|                      |      |                 | Elongation in %                    | 15 min.  |
|                      |      |                 | Reduction of Area in %             | -        |
|                      |      |                 | Hardness in BHN                    | -        |
|                      |      |                 | Impact in Joule                    | -        |

| Cross Reference Table |          |           |                                     |
|-----------------------|----------|-----------|-------------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry        |
| A240 UNS S43000       | ASTM     | USA       | Steel, Plate, Sheet and Strip       |
| 430                   | AISI     | USA       | Steel                               |
| 430                   | AS       | Australia | Steel, Sheet, Plate and Strip       |
| 430                   | SAE      | USA       | Sheet, Bar, Wire, Shape and Forging |
| STS 430               | KS       | Korea     | Steel, Sheet, Plate and Strip       |
| SUS 430               | JIS      | Japan     | Steel, Wire and Bar                 |
| A182 F 430            | ASTM     | USA       | Steel, Pipe and Forging             |

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