

# Grade Super 13 CR, UNS S41426

## Introduction :

Alloy 13Cr is the material which is developed from the quality Grade 13Cr. It provides increased mechanical properties and corrosion resistance. While maintaining the martensitic microstructure the low carbon gets improved weldability.

## Products Available

### in forms :

- Grade Super 13 CR, UNS S41426 Plates
- Grade Super 13 CR, UNS S41426 Pipes
- Grade Super 13 CR, UNS S41426 Round Bar
- Grade Super 13 CR, UNS S41426 Tube
- Grade Super 13 CR, UNS S41426 Flanges
- Grade Super 13 CR, UNS S41426 Wire
- Grade Super 13 CR, UNS S41426 Fittings

## Standard Available

### in forms :

- ASTM A182/ ASME SA182 Stainless Steel Pipe Fittings
- ASTM A213 / ASME SA213 Seamless Stainless Steel Pipes
- ASTM A240/ ASME SA240 Stainless Steels Sheets / Plates
- ASTM A249/ ASME SA249 Stainless Steel Welded Tubes
- ASTM A269/ ASME SA269 Stainless Steel Tubes
- ASTM A270/ ASME SA270 Stainless Steel Sanitary Tubes
- ASTM A312/ ASME SA312 Stainless Steel Pipes
- ASTM A403/ ASME SA403 Stainless Steel Pipe Fittings
- ASTM A554/ ASME SA554 Stainless Steel Welded Tubes
- ASTM A731/ ASME SA731 Stainless Steel Pipes
- ASTM A789/ ASME SA789 Stainless Steel Tubes
- ASTM A790/ ASME SA790 Stainless Steel Pipes
- ASTM A791/ ASME SA791 Stainless Steel Tubes

## Chemical Composition

|            | Grade Super 13 CR | UNS S41426 |
|------------|-------------------|------------|
| Carbon     | 0.030 max         | 0.030 max  |
| Manganese  | 0.50 max          | 0.50 max   |
| Phosphorus | 0.020 max         | 0.020 max  |
| Sulfur     | 0.005 max         | 0.005 max  |
| Silicon    | 0.50 max          | 0.50 max   |
| Chromium   | 11.5-13.5         | 11.5-13.5  |
| Nickel     | 4.5-6.5           | 4.5-6.5    |
| Titanium   | 0.01-0.50         | 0.01-0.50  |
| Molybdenum | 1.50-3.00         | 1.50-3.00  |
| Vanadium   | 0.50max           | 0.50max    |

## Mechanical Properties

|                                 | Grade Super 13 CR | UNS S41426 |
|---------------------------------|-------------------|------------|
| Ultimate Tensile Strength, ksi  | 115 min           | 115 min    |
| 0.2% Offset Yield Strength, ksi | 110 min           | 110 min    |
| Elongation %                    | 15 min            | 15 min     |



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