

## PRODUCT DATASHEET

# F44

### Grade

F44, UNS S31254, 1.4547 (ASTM A182, ASTM A276, ASTM A479, EN 10088-3). Can be supplied NORSOK M650/M630 and NACE MRO175/ISO 15156 compliant

### Type

Super austenitic stainless steel delivered in the solution annealed condition

Property	Values
0.2% Yield Strength	44 KSI min (303 MPA min)
Ultimate Tensile Strength	94 KSI min (648 MPA min)
Elongation	35
Reduction of area	50% min
Hardness	260 HBW max

Composition	
Element	Weight%
Carbon	0.02 max
Silicon	0.8 max
Manganese	1 max
Phosphorus	0.03 max
Sulphur	0.01 max
Molybdenum	6 - 7
Chromium	19.5 - 20.5
Nickel	17.5 - 18.5
Manganese	1 max
Copper	0.5 - 1
Nitrogen	0.18 - 0.25

Notes: Moderate tensile strength and high ductility. Resistance to pitting and crevice corrosion is high. In acids containing halides it offers good uniform corrosion characteristics. Performs well in seawater environments.

### Application

Used in chemical processing, marine and oil and gas industries. For parts such as pumps, valves, heat exchangers, flanges, manifolds and chokes.

### Mechanical Properties

Solution annealed and water quenched