

TECHNICAL GUIDE

316S11 / 1.4404

Steel Description



316S11 / 1.4404 is an austenitic stainless steel, but with the addition of molybdenum, which improves corrosion resistance and has particularly high resistance to pitting and crevice corrosion in chloride environments and due to its austenitic structure, exhibits excellent toughness. 316S11 / 1.4404 is frequently used for food processing & brewery equipment, marine fittings and for many different medical applications.

| EN 10088-3 | BS970: 1991 | COLOUR CODE | DESCRIPTION |
|------------|-------------|---|----------------------------|
| 1.4404 | 316S11 |  | Austenitic stainless steel |

| CHEMICAL ANALYSIS | |
|-------------------|-------------|
| Car | 0.030 max |
| Sil | 1.00 max |
| Mang | 2.00 max |
| Phos | 0.045 max |
| Sul | 0.030 max |
| Chr | 16.5 / 18.5 |
| Moly | 2.00 / 2.50 |
| Nick | 11.0 / 14.0 |

| INTERNATIONAL SPECIFICATION COMPARISON | |
|--|-----------------|
| BRITISH BS 970:1991 | 316S11 |
| BRITISH BS 970:1955 | |
| GERMAN DIN | |
| FRENCH AFNOR | |
| SWEDISH SS | 2348 |
| AMERICAN SAE | |
| EUROPEAN STEEL NO. | 1.4404 |
| EUROPEAN STEEL NAME | X2CrNiMo17 13-2 |
| EUROPEAN STANDARD | EN10088-3 |

| QUICK VIEW SYSTEM | |
|------------------------------------|---|
| MACHINEABILITY | 60 |
| WELDABILITY | Good |
| HARDENABILITY | Not applicable |
| SELECTION GUIDE AND USAGE EXAMPLES | Fully resistant to weld decay. Acid resisting and suitable for food, marine & medical purposes. |

| SIZE RANGE SUMMARY | | | |
|---|----------|-----|-----------------------|
|  | Rounds | IMP | 1/4" - 6" dia |
| | | MM | 3mm - 50mm dia |
|  | Hexagons | IMP | .248" - .437" a/f hex |

SEE STOCK RANGE FOR SPECIFIC SIZES.