

Brand name | Zeron 100

Trade name | Alloy 100 Super Duplex

| Material No. | EN Designation | UNS | Alloy |
|--------------|--------------------|--------|-------|
| 1.4501 | X2CrNiMoCuWN25-7-4 | S32760 | 100 |

Description | 1.4501 / Alloy 100 SUPER-DUPLEX is an austenitic-ferritic chromium-nickel-molybdenum stainless steel with tungsten in addition.

Special properties | Excellent corrosion resistance to intergranular corrosion. Good mechanical characteristics aligned with high corrosion resistance.







| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| C % | Si ≤ % | Mn ≤ % | P ≤ % | S ≤ % |
| ≤ 0.030 | 1.00 | 1.00 | 0.035 | 0.015 |
| Cr % | Mo % | Ni % | N % | Cu % |
| 24.0-26.0 | 3.00-4.00 | 6.00-8.00 | 0.20-0.30 | 0.50-1.00 |
| W % | | | | |
| 0.50-1.00 | | | | |

| Hardness HB 30 ≤ HB | 0.2% Yield strength R _p ≥ N/mm ² | Tensile strength R _m N/mm ² | Elongation A ₅ ≥ % | Modulus of elasticity kN/mm ² |
|------------------------|---|--|----------------------------------|---|
| 230 | 550 | 800-1000 | 20 | 200 |

| Density g/cm ³ | Specific heat capacity J/kg K | Thermal conductivity W/m K | Electrical resistivity Ω mm ² /m |
|------------------------------|----------------------------------|-------------------------------|--|
| 7.8 | 500 | 15 | 0.8 |

Suitable welding filler materials | 1.4501

Application | Chemical industry, oil and gas industry

| Sheets/Plates | Bars | Tubes/Pipes | Fittings | Forged / cast parts | Finished part (drawing) |
|---|---|---|--|---|---|
|  |  |  |  |  |  |

Available forms for 1.4501 / ALLOY 100