



Quick Facts

- Known as Super Duplex F55
- Available in the hot worked annealed condition
- Excellent corrosion resistance to a range of media
- Resistant to pitting and crevice corrosion in marine and chloride containing environments
- High strength compared to austenitic and 22% chrome duplex stainless steels

Alloy S32760 is a super duplex stainless steel which combines high mechanical strength and good ductility. It has excellent corrosion resistance in a range of environments. It is usually supplied in the annealed condition and cannot be age hardened however cold working can give stronger surface strengths.

Typical Applications

Bolts and Fasteners, pumps, valves, vessels, wellhead equipment, subsea equipment, propellers and shafts.

Stock Range

We stock a comprehensive range of round bar sizes between 15.875mm and 44.45mm diameter. We can also supply flat bar, rings, blocks and slabs.

Primarily manufactured in Europe

Industry Specifications

- ASTM A479
- UNS S32760
- Werkstoff Nr. 1.4501
- Nace MR0175/ISO15156
- Norsok M630

Material may also be supplied to Customer specifications, subject to enquiry



Chemical Analysis

Typical analysis:

	C	Cr	Cu	Fe	Mo	Mn	N	Ni	P	S	Si	W	-
Min	-	24.0	0.5	BAL	3.0	-	0.20	6.00	-	-	-	0.50	%
Max	0.030	26.0	1.0	-	4.0	1.0	0.30	8.00	0.03	0.01	1.0	1.0	%

Material Condition

Our material is supplied in the hot worked and annealed condition. Material is supplied with corrosion testing in accordance with ASTM G48A.

Mechanical Properties

Typical properties:

Tensile PSI (MPA) min	Yield (0.2% offset), PSI (MPA) Min	Elongation in 2" or 4D min%	Hardness (Brinell) Max
108,800 (750)	79,800 (550)	25	270

Physical Properties

Typical properties at room temperature

Room Temp Density	7810 kg/cm ³
Young's Modulus	199 x 10 ³ N/mm ²
Mean Coefficient of thermal expansion 20-100°C	11.1 x 10 ⁶
Specific Heat	475 Joules/Kg°C
Magnetic Permeability	33



MAHER

F55 Data Sheet



All material we supply has full traceability with inspection certification in accordance with BS EN 10402 3.1. We can supply material with BS EN 10402 3.2 inspection certification on request. We have onsite PCN and SNT Level III inspectors who can test material to your requirements. All information included in this sheet is intended as a guide only and is correct to the best of our knowledge.