



## SUPER DUPLEX S32760 / F55 / 1.4501

Super Duplex S32760/ F55 , Super Duplex Alloy UNS S32760 (F55 / 1.4501) has excellent resistance Pitting and Crevice Corrosion in seawater at elevated temperatures, supplied with a PREN 40<( Pitting Resistance Eqv) . Excellent resistance to SCC ( Stress Corrosion Cracking) in Sour and Chloride environments .

Providing higher strengths than both austenitic and 22% Cr Duplex Stainless Steels UNS S32760 (F55) is suited to a variety of applications in industries such as Oil & Gas, CPI(Chemical Processing Industries), and Marine environments.

UNS S32760 (F55 / 1.4501) is listed in NACE MR 01 75 for sour service and having gained ASME Approval for Pressure Vessel applications.

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### Material Data Sheet

Alloy	Super Duplex S32760
Material No.	1.4501
EN symbol (short)	X2CrNiMoCuWN25-7-4
UNS	UNS S32760
Registered work label	ASTM A182/ F55

### Chemical composition

C	Cr	Cu	Fe	Mo	Mn
%	≤ %	≤ %		%	%
0.030 max	24<26	0.5<1.0	Reminder	3.0<4.0	1.0 max
N	Ni	P	S	Si	W
%	%	%	%	≤ %	%
0.20<0.30	6.0<8.0	0.030 max	0.010 max	0.010 max	0.50<1.0

### Special Properties

Youngs Modulus N/mm2	Density kg/dm <sup>3</sup> :	Magnetic Permeability
199 x 10 <sup>3</sup>	7.81 g/cm <sup>3</sup>	33

Excellent Resistance to pitting and crevice / erosion corrosion

### Specifications

- EN 10088-3 1.4501
- ASTM A473 UNS S32760 Forgings
- ASTM A182 Grade F55 UNS S32760 Forged Flanges
- ASTM A240 UNS S32760 Sheet and Plate
- ASTM A479 UNS S32760 Bar
- ASTM A276 UNS S32760 Condition A
- NACE MR 01-75

The material comes with a 3.1 certification.  
3.2 certification are available with surcharge.

### Mechanical Properties

0.2% Proof Stress (N/mm2 ) [ksi] minimum	550 [79.8]
Ultimate Tensile Strength (N/mm2) [ksi] minimum	750 [108.8]
Elongation (%) minimum	25
Hardness (HBN)	270max
Reduction of Cross Section Area (%) minimum	45
Charpy V-notch Impact at ambient Temp (J) [ft.lb]	80min [59min]
Charpy V-notch Impact at -46°C (J) [ft.lb]	45av, 35min [33av, 25.8min]

### Delivery program

Various sizes and tolerances available upon request.

### Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

## Contact us



### Wido Glombitza

Sales Manager Industry & Econoxx

+41 (0)44 823 88 27

## Weight Calculator