

## F55 - SUPER DUPLEX - UNS S32760

### MATERIAL DESCRIPTION

F55 Super Duplex UNS S32760 is a duplex stainless steel especially designed for service in aggressive chloride-containing environments and has additions of W and Cu compared to UNS S32750. It has very good resistance to localized corrosion and stress corrosion cracking in combination with high mechanical strength.

### APPLICABLE SPECIFICATIONS

ASTM A276/276M, ASTM A479/479M

NACE MR-0175/ISO 15156

NORSOK M-650, NORSOK M-630 - MDS-D57

1.4501, X2CrNiMoCuWN 25-7-4

### HEAT TREATMENT

Intoco bar stock is in the solution annealed & water quenched condition

### CHEMICAL ANALYSIS RANGE

ELEMENT	WEIGHT %	ELEMENT	WEIGHT %
C	0.03 Max	Cu	0.50 to 1.00
Si	1.00 Max	W	0.50 to 1.00
Mn	1.00 Max	N	0.20 to 0.30
P	0.03 Max	Al	0.02 Max
S	0.01 Max	Ni	6.00 to 8.00
Cr	24.0 to 26.0	Mo	3.00 to 4.00

### TYPICAL MECHANICAL PROPERTIES (Min unless stated) SOLUTION ANNEALED CONDITION

0.2% Yield ksi (MPa)	UTS ksi (MPa)	Ductility		Full size (10mm x 10mm) Charpy V Notch @ -46°C  Ft-lbs (J)	Hardness HBW (HRC)
		%El 4D	%RA		
80 (550)	109 (750)	25	45	33(45) (≤200mm Dia)	310 (32) max

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