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F55 - SUPER DUPLEX - UNS S32760

APPLICABLE SPECIFICATIONS

ASTM A276/276M ASTM A479/479M ASTM A182/182M NACE MR-0175/ISO 15156
NORSOK M-650 MDS-D54, MDS-D57

A chemical resistant ferritic-austenitic stainless steel. Sea water corrosion resistance with mechanical properties that are greater than UNS S31803, 25% Cr UNS S32550 or 6% Mo UNS S31254 grades

CHEMICAL ANALYSIS RANGE (WT%)

C	0.03 Max	Cr	24.00 - 26.00	N	0.20 - 0.30
Si	1.00 Max	Mo	3.00 - 4.00	Cu	0.50 - 1.00
Mn	1.00 Max	P	0.03 Max	W	0.50 - 1.00
Ni	6.00 - 8.00	S	0.01 Max		

HEAT TREATMENT

SQA bar stock is in the Solution Annealed & Water Quenched condition

TYPICAL MECHANICAL PROPERTIES IN SOLUTION ANNEALED CONDITION

0.2% Yield Strength	80000 PSI (550 MPa) min
Tensile Strength	109000 PSI (750 MPa) min
Elongation	25% min
Reduction of Area	45% min
Hardness	28 HRC
Charpy V Notch @ -50 DEG C	45/35 Joules (up to 200mm DIA)

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