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F6NM MODIFIED TO NACE – UNS S41500

APPLICABLE SPECIFICATIONS

ASTM A182/182M (Chemistry Only) ASTM A276/276M (Chemistry Only) NACE MR-0175/ISO 15156

A martensitic stainless with additions of Nickel & Molybdenum creating a high strength stainless steel with excellent sub-zero impact properties. F6NM also exhibits a high level of corrosion resistance and weldability.

CHEMICAL ANALYSIS RANGE (WT%)

C	0.05 Max	P	0.030 Max	Cr	11.5 – 14.0
Si	0.60 Max	S	0.030 Max	Ni	3.50 - 5.50
Mn	0.50 - 1.00	Mo	0.50 - 1.00		

HEAT TREATMENT

SQA bar stock is in the Solution Annealed and Double Tempered condition.

TYPICAL MECHANICAL PROPERTIES IN SOLUTION ANNEALED CONDITION

0.2% Yield Strength	75000 PSI Min
Tensile Strength	95000 PSI Min
Elongation	18% min
Reduction of Area	35% min
Hardness	23 HRC
Charpy V Notch @ -60 DEG C	42/34 Joules

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