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## F6NM

### APPLICABLE SPECIFICATIONS

UNS S41500, NACE MR-0175/ISO 15156, W1.4313

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.

### TYPICAL APPLICATIONS

Valves & actuators, subsea & downhole tooling

### 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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