

HM Wire International, Inc.

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Alloy 434 - Stainless Steel Alloy

Description:

SS 434 has the addition, from SS 430, of Molybdenum to increase its resistance to corrosion. The alloy combines a ferritic structure with good fabricability and strength characteristics.

Applications:

Primarily used in automotive trim applications and other exterior environments.

Chemical Composition

Nominal Composition	C	Si	Mn	S	P	Fe	
	0.05 max	0.5 max	0.5 max	0.01 max	0.03 max	Balance	

Typical Mechanical Properties*

Form	Strip	Strip	Strip	Strip	Strip	Strip	Strip	Strip	Strip	
Temp	70	200	400	600	800	1000	1200	1400	1600	
Tensile Strength	74	70	68	65	62	45	18	6.5	4	
Yield Strength	49	47	42	38	34	25	13	4.9	2.8	
Elongation	26	23	18	18	17	26	69	86	79	

* Condition: Test Speciman Annealed

Physical Properties

Density	0.277 lbs/cu.in.
Melting Point (approx)	2750°F
Specific Gravity	7.65
Specific Heat (Btu/lb/Deg F - [32-212 Deg F])	0.11

Foraging: Begin foraging after thoroughly soaking at 2000-2100°F and finish at 1350°F.

Annealing: Soak thoroughly at 1450 - 1600°F, air cool.

*To be used as a guideline only.