



# HSM Wire International, Inc

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## Chrome Silicon- ASTM A 401 Spring Wire

Nominal Composition:	C%	Cr%	Si%
	0.51- 0.59	0.60 - 0.80	1.20 - 1.60

Applications: Design Engineers use Chrome Silicon for shock loads and moderately elevated temperatures. Cold drawn and heat treated before fabrication.

## Physical & Mechanical Properties

	English Units
Minimum Tensile Strength	235 - 300 psi x 10 <sup>3</sup>
Design Stress % Minimum Tensile	45
Maximum Operating Temperature	475 °F
Density	.284 lb / cu. in. @68 °F
Rockwell Hardness	C48 - 55
Modulus of Elasticity (Tension)	30 psi x 10 <sup>6</sup>
Modulus of Torsion	11.5 x 10 <sup>6</sup>

\*To be used as a guideline only.

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