



# HSM Wire International, Inc

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## Chrome Vanadium - ASTM A 231 Spring Wire

Nominal Composition:	C%	Cr%	V%
	0.48 - 0.53	0.80 - 1.10	0.15 min.

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

## Physical & Mechanical Properties

	English Units
Minimum Tensile Strength	190 - 300 psi x 10 <sup>3</sup>
Design Stress % Minimum Tensile	45
Maximum Operating Temperature	425 °F
Density	.284 lb / cu. in. @68 °F
Rockwell Hardness	C44 - 49
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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