

Vecalloy H Advanced Welding Wire

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PRODUCT OVERVIEW

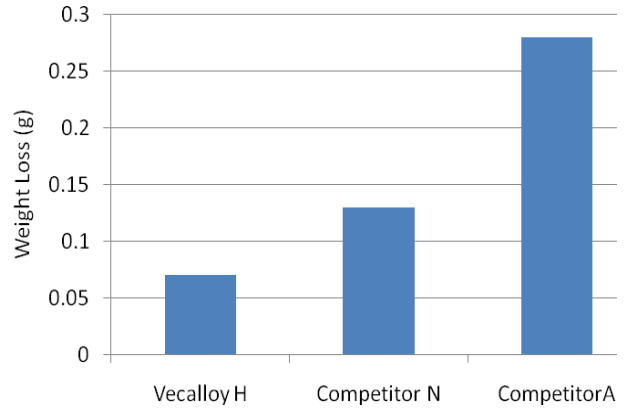
Vecalloy H Advanced Welding Wire is a revolutionary development utilizing proprietary atomic-scale computational methods and models to engineer next generation welding materials. Vecalloy H is available in .045, 1/16, 1/8 inch diameter wires and is designed for commercial wire-fed welding systems. Vecalloy H is iron-base and provides exceptional wear and corrosion resistance.

Vecalloy H is suited for applications in which wear and corrosion combine to create conditions that challenge conventional solutions. Examples of such environments include:

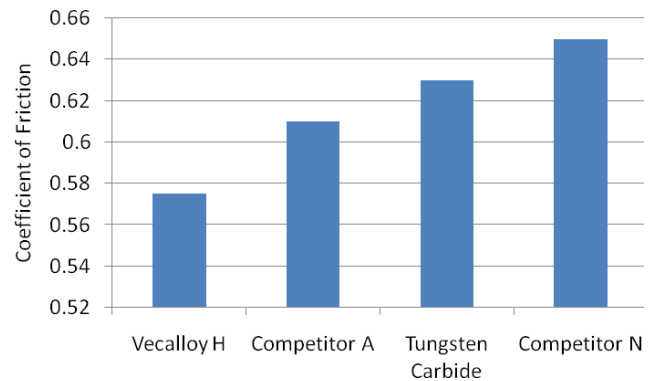
- Severe abrasive environment such as oil sand, mining, and construction.
- Sliding wear surfaces such as materials handling and energy production.

Vecalloy H's physical properties offer superior performance: strength, hardness, elasticity, wear and corrosion resistance that drive value to its end users. This provides Vecalloy with a lower cost relative to traditional alloy solutions that Vecalloy displaces.

Theoretical Density:	8 g/cc
Hardness, one pass, mild steel:	>65 RC
Melting Temperature, °F(°C):	2300 (1275)
Corrosion Resistance:	Good
Wear Resistance:	Excellent ASTM G65, ASTM G77
Coefficient of Friction	<0.60 ASTM G 77
Chemical Composition (wt. %):	
C <5%	B <4%
Cr <15%	W <15%
Nb <10%	Fe Bal.
Particle CTE:	5.7×10^{-6}



Weight Loss Comparison for Vecalloy H, ASTM G65



Coefficient of Friction Comparison for Vecalloy H, ASTM G77

Welding Parameters*

Vecalloy H	Millermatic 250X
Arc Load Volts	29-32
Current, Amps	250 - 300
Recommended Shielding Gas	98/2 Ar/O2 75/25 Ar/CO2
Wire Size, inch	1/16

Parameters available upon request for other MIG systems.

*These parameters are a starting point. Always observe industry standard safety procedures and equipment with approved eye, ear, and respiratory protection in place. Read and understand the MSDS. Do not operate equipment in a manner not approved by manufacturer.