STOODY A THERMADYNE Company

Pump sleeves

Valves & pumps

DESCRIPTION

Stoodite^{III} 1-M is the tubular wire version of the highest hardness standard cobalt alloy used with chromium carbides that impart outstanding abrasive wear resistance. The addition of tungsten enhances high temperature hardness and matrix toughness for excellent adhesive and solid particle erosion wear resistance. It bonds well with all weldable steels, including stainless.

TYPICAL DEPOSIT CHARACTERISTICS

Abrasion Resistance	Excellent
Impact Resistance	Fair
Corrosion Resistance	Good
Hardness (2 layers)	HRC 46-50
Hot Hardness	Excellent to 1400 ⁰ F
Magnetic	No
Deposit Layers	2 Maximum
Surface Cross Check	Yes
Machinability	Use carbide tools/grind
Specifications	_
AWS A5.21-2001	ERCCoCr-C

TYPICAL DEPOSIT CHEMISTRY (wt%)

Carbon	2.6
Chromium	25.8
Iron	3.6
Manganese	0.6
Molybdenum	0.1
Nickel	0.2
Silicon	0.2
Tungsten	11.2
Cobalt	Balance

TYPICAL APPLICATIONS

Typical applications include:

- Screw components
- Cross heads
- Hydropulper disc segments
- Soaking pit-tong bits
- · Mixer rotors, bodies and tip sides

OPERATIONAL CHARACTERISTICS / WELDING PARAMETERS

Diameter, In. (mm)	.045 (1.2)	1/16 (1.6)
Current, Amp. DCEP	180 - 200	280 - 300
Voltage	25 - 27	26 - 28
Shielding Gas	Argon	Argon
Wire Extension	1/2" - 5/8"	5/8" - 3/4"
Position	Flat	Flat

STANDARD SIZES & PACKAGING

Diameter	Packaging	Part #
.045" (1.2mm)	25# Spool	11455300
1/16" (1.6mm)	25# Spool	810222182062

Stoody Company

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Notice: The information contained or otherwise referenced herein is presented only as "typical", without guarantee or warranty. Stoody expressly disclaims any liability from any reliance thereon. Typical data are those obtained when welded and tested in accordance with Stoody's internal procedures. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by Stoody.

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