Eureka Welding Alloys

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TECHNICAL DATA FOR EUREKA 1216 SOLID MIG WIRE

Dated: March 31, 1995 Revised: July 8, 2013

INTRODUCTION

Eureka 1216 Solid MIG Wires are drawn, cleaned, spooled and packaged to obtain smooth wire feeding with a stable spatter free arc. These wires are designed for the most critical applications where weld metal cleanliness is most important.

. METALLURGICAL CHARACTERISTICS

Eureka 1216 Solid MIG Wire is an AISI M-2 molybdenum high speed steel tool alloy that has an as welded hardness 55– 60 HRC This alloy has extreme wear resistance and moderate impact resistance. Tempering the weld deposits at 1025 F results in a secondary hardness of 62 HRC and higher.

RECOMMENDED APPLICATIONS

Eureka 1216 Solid MIG Wire is recommended for welding AISI M-2 molybdenum high speed steel tools and other high speed tool steel grades. Typical applications encountered are trim steels, piercing punches, broaches, reamers, knifes, drills, taps and shears. **Eureka 1216** is utilized in mainly high wear areas and also used on AISI D-2 where a complete heat treat cycle will be used.

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WELDING PARAMETERS

AMPERAGE	VOLTS	
100 – 225	14 – 28	
125 – 250	16 – 28	
180 – 400	22 – 33	
	100 – 225 125 – 250	

Use DC Current with a Stick Out of 1/4"-1 1/4" (6mm-32mm)

RECOMMENDED SHIELDING GASES

75% Argon, 25% Co2 90% Argon, 10% Co2 92% Argon, 8% Co2 100% CO2 may produce lower quality arc conditions

GAS FLOW RATE

20-60 CFH

TYPICAL CHEMISTRY

С	Mn	Si	Cr	Мо	W	V
.85	.30	.30	4.3	5.0	6.2	2.0

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PHYSICAL AND OR MECHANICAL PROPERTIES

AS WELDED HARDNESS

55-60 HRC

TEMPERING DATA

The tempering data is to be used as a guide. Your results may differ due to the many variables in the utilization of this product.

