Eureka Welding Alloys

2000 E. Avis Drive Madison Heights, MI 48071

Phone: 248-588-0001 Fax: 248-585-7711 Toll Free: 800-962-8560

E-mail: info@eurekaweldingalloys.com Website: www.eurekaweldingalloys.com

TECHNICAL DATA FOR EUREKA EXP-10 ELECTRODE

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

INTRODUCTION

Eureka EXP-10 Electrode is a smooth running basic coated stick electrode for welding on cast iron. The electrodes are designed for superior weldability having no spatter, a stable arc, good wet out, and easy slag removal.

METALLURGICAL CHARACTERISTICS

Eureka EXP-10 Electrodes deposits are designed to form an austenitic band over the cast iron in one layer. The alloy in multiple layers is sufficiently hard enough to work on the noncritical areas of the die. The hardness of pure weld metal is 35-40 HRC. Where additional hardness is required Eureka EXP-10 provides an excellent underlay.

RECOMMENDED APPLICATIONS

Eureka EXP-10 Electrodes is mainly used as an underlay on cast iron. The first layer of EXP-10 on cast iron is soft and crack free. This makes for a good base for a hard alloy overlay. Eureka EXP-10 is commonly used for the repair and reclamation of all grades of nodular and grey cast irons in any heat treated condition. It is used on automotive cast iron draw dies, punches and binder rings. The alloy is good for engineering changes and repair of slug marks. It is NOT recommended for joining.

Page 1 of 2 The data herein is to be used as a guide. Your results may differ due to the many variables in the utilization of this product.

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WELDING PARAMETERS

SIZE	AMPERAGE RANGE
3/32" 2.4mm	70 – 120
1/8" 3.2mm	100 – 140
5/32" 4.0mm	140 – 170
3/16" 4.8mm	170 – 225
1/4" 6.35mm	225 – 300
5/16" 7.94mm	300 – 375
3/8" 9.5mm	350 – 425

TYPICAL CHEMISTRY

C Mn Si Cr Ni Mo

.10 1.0 .60 5.0 10.0 1.0

PHYSICAL AND OR MECHANICAL PROPERTIES AS WELDED HARDNESS

35-40 HRC

First Layer on Cast Iron: 20HRC