

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 72 TIG ROD

Dated: March 31, 1995

Revised: July 8, 2013

INTRODUCTION

Eureka 72 TIG Rods are drawn, straightened, cut to length, and then cleaned and packaged to obtain microscopically clean weld deposits. These rods are designed for the most critical applications where weld metal cleanliness is most important.

METALLURGICAL CHARACTERISTICS

Eureka 72 TIG Rod is a H-12 hot working tool steel alloy. It has excellent hot hardness, wear resistance and displays reasonable impact resistance. The as welded hardness is 50 - 55 HRC

RECOMMENDED APPLICATIONS

Eureka 72 TIG Rod is used for repairing or building of hot and cold trim and shearing dies, punches, extrusion dies and die casting dies. It is an excellent choice for press forging dies where high heat and abrasion are encountered. A typical application is the automobile connecting rod forging. High volume forgings that demand the ultimate in weld metal mechanical properties would be connecting rod, sleeve yoke, and hand tools. These applications are relatively shallow and usually high production.

Other forged products would include earth moving equipment and farm implements, hooks and lever brake bands and other shallow impressions, such as hand tools, pipe wrenches, and crankshafts.

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

RECOMMENDED SHIELDING GASES

100% Argon

Gas Flow Rate

20-40 CFH

TYPICAL CHEMISTRY

C	Mn	Si	Cr	Mo	W	V
.35	.35	1.0	5.0	1.5	1.3	.30

PHYSICAL AND OR MECHANICAL PROPERTIES

AS WELDED HARDNESS

50-55 HRC

TENSILE STRENGTH

185,000 psi

Eureka Welding Alloys

2000 E. Avis Drive

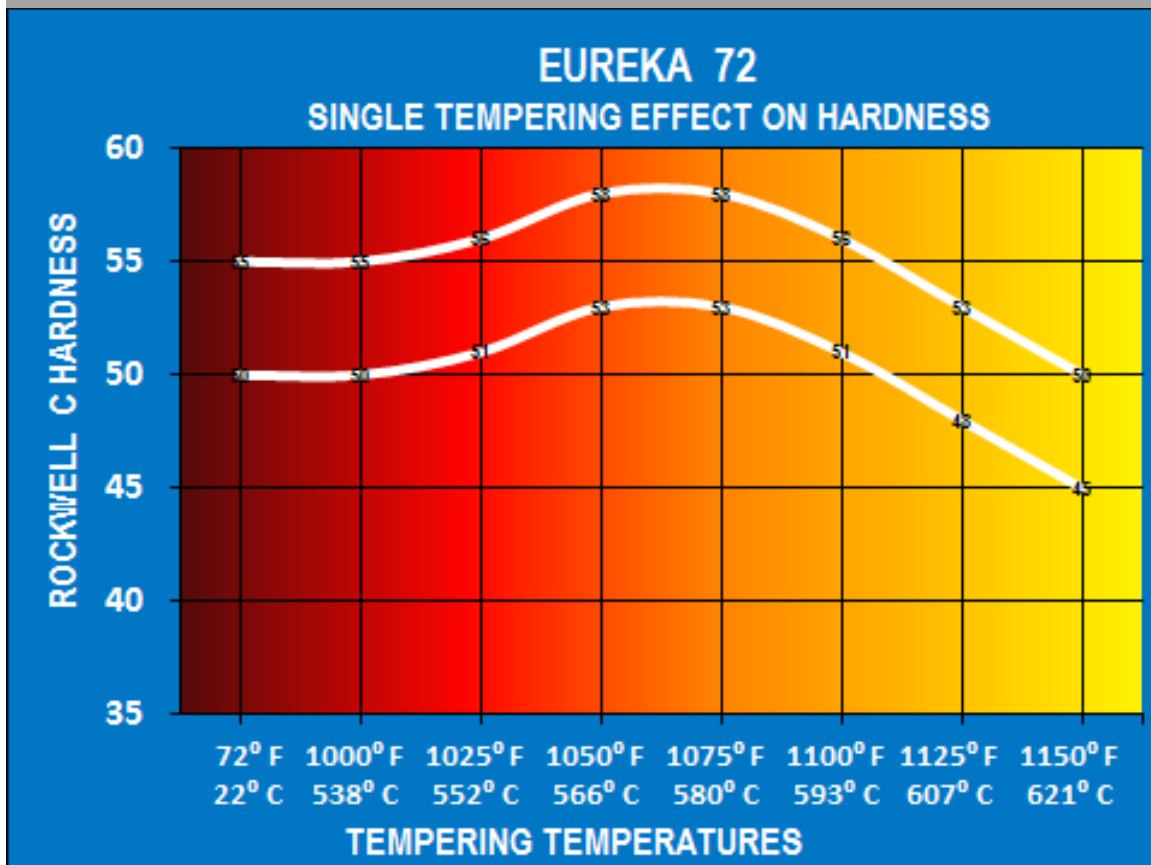
Madison Heights, MI 48071

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

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

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.



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

