WELDING MARKETPLACE





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Achieve maximum corrosion resistance to stainless steel. Surface contamination may drasticllay reduce the life of stainless steel. Bradford Derustit Pickling Product removes (**pickles**) stubborn impurities, cleans the toughest slag, scale and heat discoloration and restores (**passivates**) the protective oxide layer. (ISF) nstwhitebook.org

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1. Mix 2. Apply

Weld Stainless Without Purging

It's as simple as 1, 2, 3 when you weld with.....





3. Weld



Factory:

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California: (424) 645-8845
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Golden Empire Corporation P.O. Box 9145 • Calabasas, CA 91372 Technical Assistance Hot Line Available Monday thru Friday 9:00 AM - 5:00 PM EST



HARD-SURFACING WELDING WIRE

9544 FC-O 1/16 in. X 30-lb Spool

- Chrome manganese flux cored open arc wire
- Severe impact, moderate abrasion, hard-surface weld wire
- Developed for overlay on manganese crusher parts
- Work hardening alloy to HRc 45+

COR-MET Inc. (800) 848-2719 (810) 227-3251 cor-met.com



COR-MET_®

HARD-SURFACING WELDING WIRE

9260 FC-O 1/16 in. X 25-lb Spool

- High Carbon, high chrome open arc welding wire
- Available 0.045 to 1/8 in. diameters
- Overlay wire for severe abrasion metal to earth/stone applications
- Two-pass weld deposit 58-61 HRc

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Heavy Duty GMAW Water-Cooled Machine Torches

- Increases Contact Tip Life up to 7-to-1
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- Water-Cooled Nozzle
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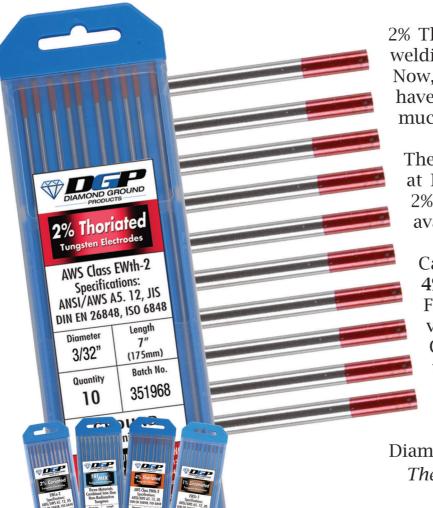
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2% Thoriated Tungsten has been the welding industry standard for decades. Now, some tungsten suppliers will have you believe it won't be around much longer!

The Tungsten Electrode Experts™ at Diamond Ground Products have 2% Thoriated in stock and readily available, with no end in sight.

Call DGP today to get your **2% or 4% Thoriated Tungsten** or get a FREE sample of our other tungsten varieties such as Tri-Mix[™] or Cryo-T. They are better options than cheap imitations claiming to be "new technology".

Diamond Ground Products...

The Tungsten Electrode Experts



2651 Lavery Court • Newbury Park, CA 91320 Tel: 805.498.3837 • sales@diamondground.com

diamondground.com



2% Thoriated Has Not Been Discontinued

2% Thoriated has been the standard in the welding industry for decades due to its low work function and high load and amperage capability. Lately, some tungsten suppliers will have you believe it won't be around much longer. That simply isn't true. The Tungsten Electrode Experts at DGP have 2% Thoriated in stock and ready to ship same day, with no end in sight. Looking for alternatives? We have many, including our new DGP Tri-Mix tungsten blend that offers better performance and significant savings over OEM Tri-Mix electrodes. Call today for a free sample or for any tungsten-related questions.





Diamond Ground Products, Inc. (805) 498-3837 diamondground.com

Get DGP Tri-Mix at Up To 70% Off OEM Pricing

DGP has carried nonradioactive Tri-Mix as an alternative to 2% Thoriated for over 20 years. The three-oxide blend offers many benefits including extended life, excellent arc starting and quality arc. With these advantages, Tri-Mix also came at a premium price...until now. DGP now offers our own brand of Tri-Mix that has all the benefits of the OEM brand with up to 60% savings off the price. Don't take our word for it though, call 805-498-3837 for a free sample you can test today!





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Is the Piranha III The Best Tungsten Grinder on the Market

The short answer is yes. The Piranha III tungsten electrode grinder is the best selling grinder on the market and offers:

- Longitudinal diamond grinding, flatting and notch cutting for tungsten electrode diameters .040" to 3/16"
- \cdot Included angle range from 10° to 60°
- Enclosed grinding area
- Integrated receptacle area for ease of handling electrodes
- · Sliding dust shield for 100% dust containment

If you're in the market for a tungsten grinder or are interested in finding out the benefits of having a dedicated tungsten grinder, contact DGP today.



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Arc Saber Storage Protects Your Tungsten

The Arc Saber is a quality storage container designed to protect your tungsten welding electrodes. Great for your tool box or work table, it holds up to 19 1/8-in. (3.2-mm) tungsten electrodes. The Arc Saber tungsten storage container features:

- High-impact polyethylene and HDPLA plus plastic
- 12.5 lbs pull rated Neodymium (rare-earth) magnet located in the base
- Threaded-on cap with o-ring seal
- Wood strip to minimize atmosphere and moisture contamination
- Quick reference stickers for taper and size

Our entire selection is available to ship same day at DiamondGround.com or call us to learn more.



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Pre-Ground Welding Electrodes

DGP has been known as "The Tungsten Electrode Experts" since 1992, when we first started manufacturing pre-ground tungsten electrodes with a goal to increase weld quality and productivity with electrodes precision ground or polished to the



strictest tolerances. The benefits of DGP pre-ground electrodes include:

- Reduced arc wander
- Consistent arc shape
- Superior arc starting
- · Longer electrode life
- Elimination of tungsten inclusions

We offer FREE samples of pre-ground tungsten electrodes and a FREE tungsten preparation guide.



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Top Quality Tungsten. Lowest Prices. Same Day Shipping from Stock!

The Tungsten Electrode Experts at DGP have been on the cutting edge of tungsten technology since 1992. We offer the largest selection of tungsten electrodes in the welding industry from stock and ready to ship same day. We pride ourselves on offering top-quality products and exceptional customer service. We're so confident in our quality, we also offer free samples. Call today!





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- Continuous Duty Cycles up to 1000° Preheat, 850 Amps
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Wherever and whatever you have to weld, Böhler Welding has the best stick electrode for the job. We supply any type you may need and our electrodes are always easy to handle, with fine arc ignition and stability.



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ONE STEP AHEAD.



American Friction Welding Expands Capacity with New 50-Ton Friction Welding Center

American Friction Welding (AFW) has installed a new Thompson 50-ton rotary friction welding center to expand capacity and provide manufacturing redundancy and scheduling flexibility. The center features enhanced technology with rate control and forge collapse capability to ensure weld repeatability and maintain length tolerances. The new equipment will primarily serve the automotive and electric vehicle market and brings the count to 17 high-precision centers for North America's largest subcontract friction welder.

"AFW continues to experience much growth, which is a great problem to have. The new 50-ton center opens capacity to manage high-volume demand and serve the growing needs of our customers," John Fischer, President of American Friction Welding, said in a statement. "Special thanks to our friends at Thompson Friction Welding for all their support in this endeavor."

American Friction Welding (AFW) is a bi-metallic friction welder of dissimilar metals and near-net-shape parts using direct-drive rotary friction welding to deliver high-precision, full-strength welds in the most demanding applications and industries. Dramatic cost savings result from reducing the working material, machining, and surface finishing needed to produce finished metal components. AFW operates ²⁴/₇ in a 63,000-square-foot, climate-controlled ISO 9001:2015 certified facility in Waukesha, WI, providing sub-contract welding services since 1986.

Thompson Friction Welding - a business unit of KUKA Systems U.K. Limited – has been manufacturing rotary friction welding machines in the Black Country, UK, for 60 years. KUKA is a global automation corporation with sales of around 2.6 billion euro and roughly 14,000



employees. The company is headquartered in Augsburg, Germany. As one of the world's leading suppliers of intelligent automation solutions, KUKA offers customers everything they need from a single source: from robots and cells to fully automated systems and their networking in markets such as automotive, electronics, metal & plastic, consumer goods, e-commerce/retail and healthcare.

American Friction Welding 505 Northview Road Waukesha, WI 53188 (262) 797-8840 Sales@teamafw.com teamafw.com

STOP STOPPAGE STEP UP SAFETY

Industry has long been aware of the dangers of unguarded rotating assemblies yet has allowed thousands of them to operate on plant floors posing risks to employees, equipment, and work in progress. Caster Master now offers the solution to the common everyday issues caused by wheels rolling or, more accurately, stopping suddenly on facility floors with their patented Path Pro® Wheel Guards.

Every business, no matter how organized, has or will experience these issues with varying degrees of frequency.

FOD

Whether as a byproduct of the process itself, a simple slip of the hand, or any other unintended source, foreign objects commonly find their way into the wheels' path. The costs associated with this sudden stop can range from the waste of time removing the object and redirecting the cart to the cart tipping and losing its payload, and even personal injury should the cart or load strike the operator or bystanders.

CORDS / HOSES

From welders to lab equipment, many appliances require cords and/or hoses to perform their intended operation. Without wheel guarding, it takes painstaking time to manage these lines running to and from the equipment to avoid the sudden stoppage previously mentioned as well as damage to the cord or hose itself.





FEET

The scenario of a wheel / foot collision may be the one instance where you hope for sudden wheel stoppage — unless of course you're on the receiving end of the displaced cargo. No one wants to see the results of a 10-in. wheel carrying its share of a 2-ton load rolling over a human foot, not to mention the costs associated with such an injury.

Path Pro® Wheel Guards safely and economically clear the wheels' path of cords and other obstructions resulting in safer, smoother processes for your business.

*Made in the USA

*100% Satisfaction Guaranteed



(308) 550-0151 thecastermaster.com



Bradford Derustit Corp.

Clean, Restore, Protect, Preserve Metal Surfaces Restore stainless steel

The corrosion resistance of stainless steel depends on the presence of an invisible protective oxide surface. Activities such as welding, coarse grinding, use of carbon steel tools can embed grease, dirt and iron into the surface, damaging the passive protective layer. Handling and transport of stainless steel is often a frequent source of contamination.

For nearly 50 years, Bradford Derustit has provided pickling products that will restore a clean surface to the standard of the original corrosion resistance. Using our pickling products will give a better result than alternative surface treatments such as grinding and polishing.

Improve surface finish. Consistent results. Clean, brighten and passivate stainless steel.

- · Pickling and passivating in one easy step
- · Prevent corrosion
- Efficient
- · Save time and money
- · Eliminate labor intensive grinding and buffing



Pickling and Passivation

Pickling is the complete removal of oxides, scale and contamination from stainless steel surfaces. Passivation is the regeneration of the passive film that protects the stainless steel surface to resist corrosion.

Passivation will start immediately after the complete removal of contamination. It may take approximately 24 hours to achieve maximum effectiveness.

Bradford Derustit Corp.

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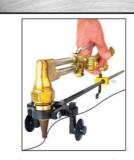




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