



ARCWEL 788-OFW

TUNGSTEN—NICKEL-BORON RODS/WIRE AGAINST EXTREME ABRASION (HF 5000)

GENERAL CHARACTERISTICS AND APPLICATIONS

- ◆ **Self fluxing, flexible tungsten/ nickel/ torch brazing alloy producing an extremely hard and wear resistant overlay.**
- ◆ For overlay of screws, augers and coils of all types requiring high hardness.
- ◆ Building up and protecting wear plates, guides, heat treating baskets,
- ◆ For **stabilizers (oil well drilling)** sugar cane blades and combs , wood debarker knives, paper and textile cutters, lower radial bearings, mixer blades, and other parts requiring good edge retention characteristics.
- ◆ Deposits can be finished by grinding .
- ◆ Enriched microstructure of deposits (**borides, carbides, tungsten and silicide** provides extremely high resistance to any combination of friction, abrasion, compressive loading, heat and corrosion,
- ◆ **Non-cracking of deposit as opposed to other tungsten carbide products.**
- ◆ Recommended Deposit thickness: up to 10 mm
- ◆ Made for application with oxy-acetylene flame. Application temperature: 1100 C
- ◆ **RECOMMENDED FOR GEO THERMAL APPLICATIONS**

TECHNICAL DATA :

Hardness	Grain size /WC
2200 (HV) 0,05 (Vickers) Carbide content ~65 %	0.4-1.2 Other grain sizes available on request

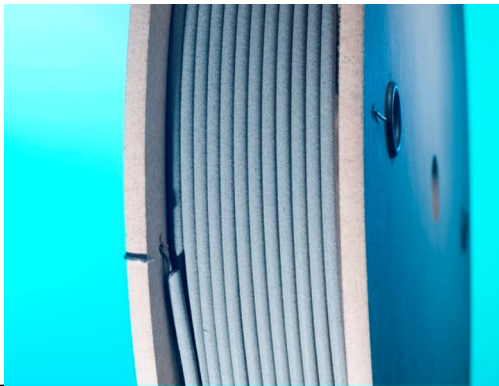
HARDFACE STABILIZERS



FORM OF DELIVERY/PACKING

Ø [mm]	Rods length [mm]	Wire spool weight [kg]
4,00	500	10/15
5,00	500	10/15
6,00 *	500/1000	10/15
8,00	500/1000	10 /15

* most popular size used



Disclaimer:
 The information and data presented herein are typical or average values. Application suggested are made solely for the purpose of illustration to enable the reader to make his own valuation and are not intended as warranties.
 Arcwel reserves the right to alter specification without further notice.
 Health & Safety : Observe safety regulations (fumes) MSDS available on request
www.arcwel.com E-mail. info@arcwel.at sept 2017



ARCWEL 790-OFW –C

Composite brazing rod with tungsten carbide for cutting applications and wear protection

Nickel -bronze- tungsten carbide rod for use with the oxy acetylene process.

- ◆ The deposit offers excellent abrasion and good impact resistance.
- ◆ Used for repair and protection on oil and rock drills, fishing tools, downhole reamers, sand mixer blades, fishing tools, (junk mill) reamers , rotary cutting bits, augers, drill bits, stabilizers, wear plates, pipe handling equipment, ripper teeth, wood processing tools etc.
- ◆ Suitable for Anti wear coatings requiring a gripping or a cutting action . (G4or G5)
- ◆ Use with ARCWEL 800-OFW Nickel bronze alloy or spray powder 2018 SF for tinning.
- ◆ **Hardness: 2500-3000HV (carbides)**
- ◆ Hardness: Matrix: 180-200 HB
- ◆ Working temperature:~ 910 °C

Note: The finer carbide size rods (G2) will provide excellent resistance to fine abrasive materials. The coarser types (G4 ,G5) are recommended when cutting action is required .

Form of supply: Rods length 430 mm
 Weight per rod +-450 gram
5 kg Box includes 60 g Brazing Flux

Code	Grain size Inches	Grain size mm	Kg Box
790 G 2	1/16x1/8	1.6-3.2	5
790 G 3	1/8x3/16	3.2– 4,8	5
790 G 4	3/16x1/4	4.8-6.3	5
790 G-5	5/16x1/2	6.4-8.0	5



Stabilizer hardfacing ARCWEL 790 –OFW



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