

# Metal Spray Powders /Equipment (10)

ARCWEL CODE	DESCRIPTIONS & APPLICATION	TECHNICAL DETAILS
<b>2015</b>	<b>Nickel base</b> powder for joining and overlaying of parts where machinability good bonding is of prime importance <b>Used as a bonding layer and filler powder when applying tungsten carbide (TCl ) inserts or composite rods to stabilizers etc. Fusion temperature (°C) 1040 –1080</b>	<b>Hardness : 13-18 HRC</b> <b>Composition of Powder.</b> <b>Ni, Cu, Si, B,</b>
<b>2020</b>	Nickel base powder for joining and overlaying of parts where machinability is of prime importance. For use on glass, press or plastic injection moulds, manifolds, casting defects, tinning of stabilizers when cementing tungsten carbide inserts .	Melting range:~1050-1260 ° <b>Hardness: 200-240 HV 30</b> Service temp.: max: 600°C
<b>2030</b>	<b>Nickel based flame spray powder (spray and fuse) with Boron and Silicon additions for overlaying of cast-iron, steel, eg. 4140/45 stainless steel and nickel alloys, Low melting point, good fluidity, easy to machine , Excellent resistance against corrosion, friction and heat.</b>	Melting range:~1050-1150 ° <b>Hardness: HRC 30-35</b> Service temp.: max: 600°C
<b>2040</b>	Nickel Chrome alloy powder for anti wear coatings against metal to metal pressure, For use on ,glass and plastic moulds, press tools & Thick coatings or build ups are possible.	Melting range:~1050-1260 ° <b>Hardness: 360-420HV 30</b> Service temp.: max: 600°C
<b>2060</b>	<b>Nickel Chrome alloy powder</b> for anti wear coatings against abrasion and erosion. use on conveyors screws, guide rollers, cams, Valve steam Seats , Flow control Valve parts Mixer blades, fan blades, pump plungers etc.	Melting range:~1050-1260 ° <b>Hardness: 56-62 HRC</b> Service temp.: max: 600°C
<b>2070 –40 2070-50 2070-60</b>	<b>Tungsten carbide alloy powder (40, 50 , 60 % WC)</b> for coatings with maximum resistance to abrasion and erosion. For knives, feeding screws, Mixer blades, Debarker tools, stabilizers,	Melting range:~1050-1260 ° <b>Hardnes: 57-64 HRC</b> Service temp.: max: 600°C

**Above powders are available in the following Particle size Range**

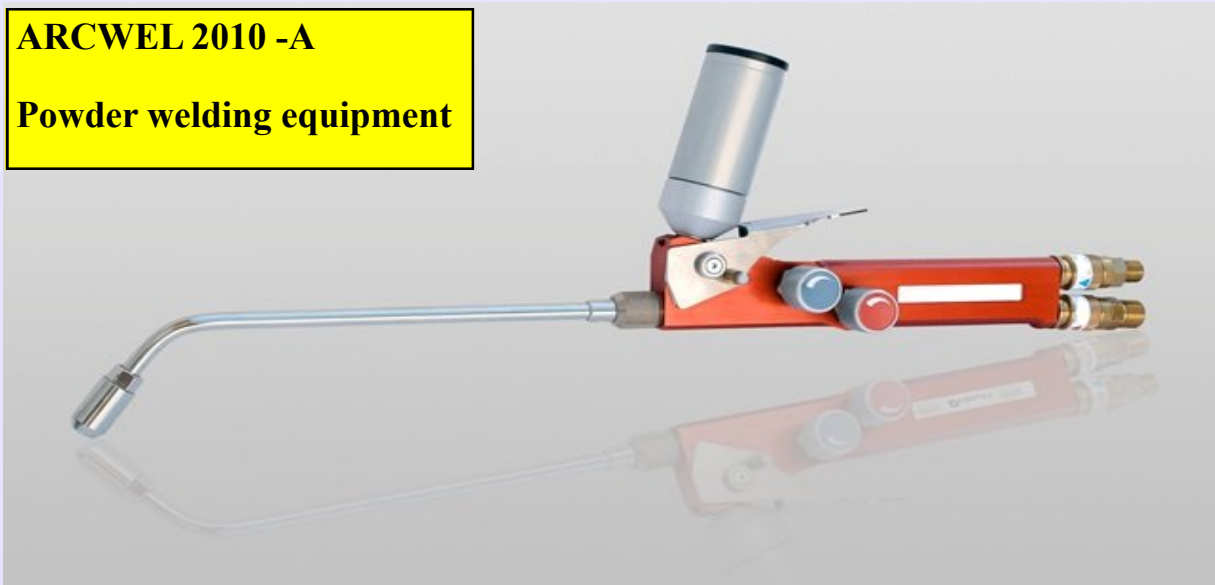
- 1) Powder welding ( PW)  $\mu\text{m}$  106/20
- 2) Flame spraying spray-fuse ( SF ) size  $\mu\text{m}$  106/45 or 106/36
- 3) HVOF Spraying ( HVOF )  $\mu\text{m}$  53/20
- 4) PTA welding ( PTA) size  $\mu\text{m}$  150/53

Limitation/ Warranty . Above information are given in good faith and are based on lab. Results  
The final hardness of the weld deposit will depend strongly on the degree of dilution with the base metal and the spray parameters used, therefore no warranty on final results achieved can be provided.  
Material safety data (MSDS) available on request. [www.arcwel.com](http://www.arcwel.com) update may 2022  
[www.arcwel.com](http://www.arcwel.com) update may 2023

## ARCWEL POWDER WELDING TORCHES

### ARCWEL 2010 -A

#### Powder welding equipment



- A simple to use and cost effective spray & fuse torch to protect and repair valuable components against wear and tear.
- Metal powders are applied with this special oxy acetylene torch and fused simultaneously to the surface of the metal part.
- Precise and thin overlays can be made by diffusion ensuring a perfect bond below the melting point of the base metal.
- Coatings made by this process have only a minimum of dilution and therefore retain the original properties.
- No special training of operator required.
- **Simply connect to ordinary oxygen and acetylene gas**
- Designed for max. service life and easy handling

Set/ Kit as shown includes the following :

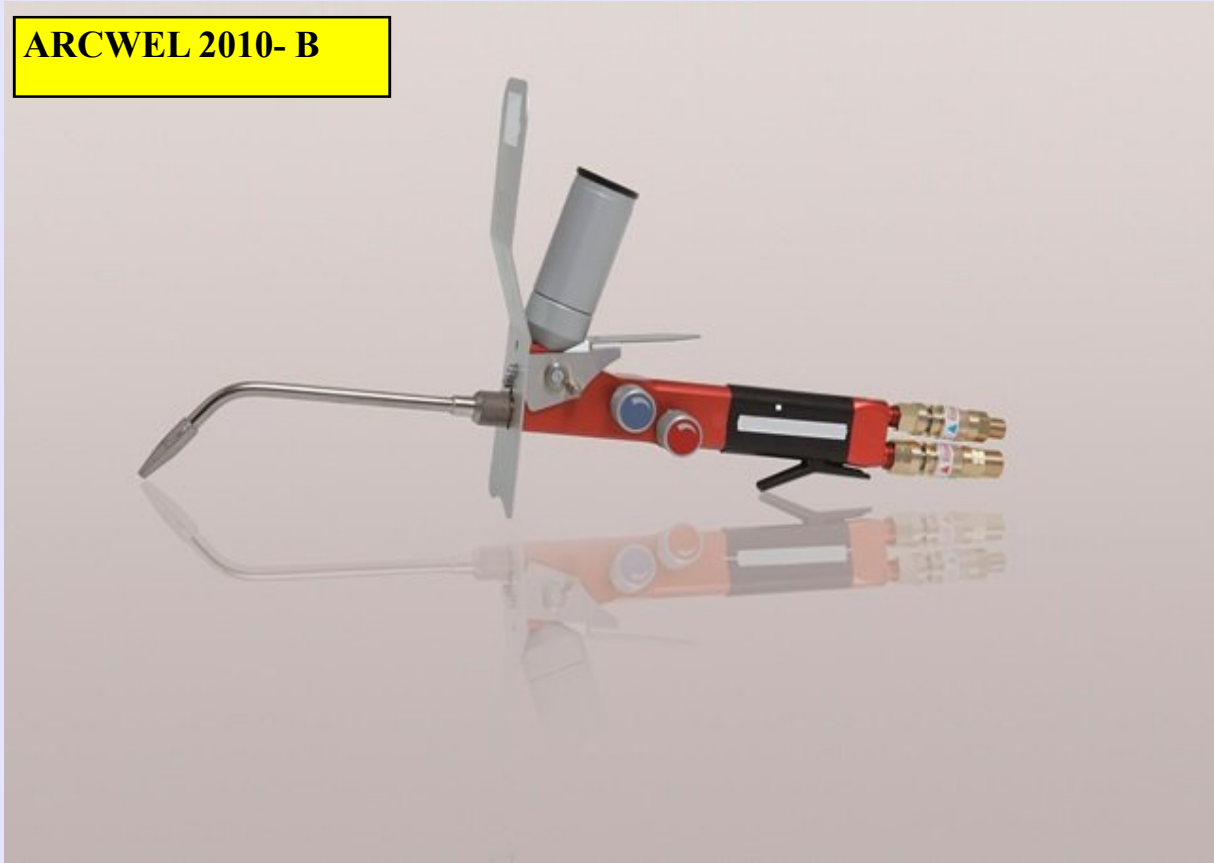
- Torch with powder hopper
- 5 different spraying nozzles (1-5)
- 2 large heating/ spraying nozzles
- 2 quick couplings
- Set of O rings and wrench
- Carry box

Equipment comes with one year warranty



ARCWEL CODE 2010-A -SET

### ARCWEL 2010- B



**MODEL 2010 -B offers the following additional features**

- ♦ **Heat shield for extra protection**
- ♦ Integrated quick action shut of valve .
- ♦ Gas mixture which was previously adjusted is maintained , saving time when spray operation has to be interrupted frequently
- ♦ Highest level of operational safety
- ♦ Accessories as per Model 2010-A

