



Manufacturers of Custom Welding Lines for Resale  
[www.selectrode.com](http://www.selectrode.com)

# SELECTRODE 4112

**Tungsten Carbide Hard  
Overlay Powder**

## FEATURES & APPLICATIONS

Our code 4112, is a blend of nickel chrome self fluxing powder and tungsten carbide. When fused it creates a deposit having evenly distributed hard carbide particles in a nickel chrome matrix which provides excellent wear resistance. The fused coating resists wear by abrasive grains, particle erosion and fretting.

Special gas atomized powders designed for use in all spray and fuse "puddle torches"

- Spherically shaped particles promote excellent powder flow through torch components.
- Custom balanced particle sieve distribution creates the highest powder efficiency with the lowest amount of overspray.

## TYPICAL PROPERTIES

<b>Nominal Chemistry</b>	<b>Tungsten Carbide 60% , Cr 11% , B 2.5% , Si 2.5% , Fe 2.5% , C .5 , Ni Balance Particle Size: -100+325 mesh</b>
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Melting Temperature:	1800°F (1040°C)
Deposit Hardness	RC 58-65
Carbide Particle	Knoop 1800
Application	Hard applications on slipways, plug gauges, cam followers, rocker arms

4112 coatings can be finished by grinding only with aluminum oxide or silicon carbide grinding wheels. It bonds metallurgically with the substrate and produces a smooth coating.