

## SP NiCrBSi Wc2

**CATEGORY** Metal Powders

**TYPE** Water atomised self fluxing metal powder for hardfacing.

**APPLICATIONS** Flame spray powder for overlay spray and fuse on wear parts that need to outlast new parts where high temperatures combined with corrosion and wear resistance is required.

**PROPERTIES** Self fluxing Tungsten alloy with excellent corrosion and wear resistance suitable for working temperatures Up to 950°C. The coatings are dense and practically oxide free. The low friction properties makes the alloy excellently suitable for metal to metal wear. Machinable by grinding.

**CLASSIFICATION** AWS  
EN ISO

ASTM:  
UNS:  
5823

**SUITABLE FOR** Knives, cutter blades, agriculture, glas industry, nozzle molts, impellers, extruders etc.

**APPROVALS** CE approved

**WELDING POSITIONS:**



### MAIN CHEMICAL COMPOSITION

Ni	Cr	B	Si	Fe	W
Bal.	17	3	4	4	17

### MATERIAL PROPERTIES:

Heat Treatment	R <sub>p0,2</sub> (N/mm <sup>2</sup> ) (N/mm <sup>2</sup> )	R <sub>m</sub> (N/mm <sup>2</sup> )	A <sub>5</sub> (%)	Impact Energy (J) ISO-V -20°C	Density g/cm <sup>3</sup>	Melting range °C	Hardness HRC
SR:							61-64

SR: stress relieved

### POWDER SIZE RANGE

Distribution grain size				
Size μm*	Size μm*	Size μm*	Size μm*	Size μm*
180-75	150-63	125-45	63-15	45-10

**REDRYING TEMPERATURE** not required