

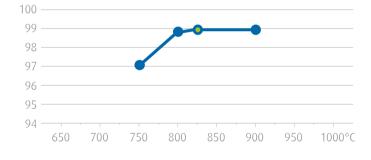
# TECHNICAL DATA SHEET

# STEP® 10 Base Pre-Alloyed Powder

### TYPICAL PHYSICAL AND CHEMICAL DATA

STEP®10 powder			
Theoretical density (g/cm³)	7.80		
Scott density (g/cm³)	1.5		
Tap density (g/cm³)	2.5		
Oxygen content (wt %)	1.0		
Fisher grain size <i>(μm)</i>	2.5		

## % RELATIVE DENSITY



# Minimum sintering temperature 800°C Recommended sintering temperature 825°C

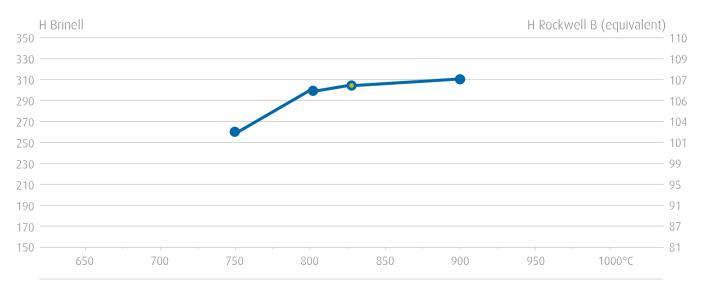
Recommended sintering temperature 825°C

Pressure 350kg/cm²

Holding time 3 min

SINTERING CONDITIONS

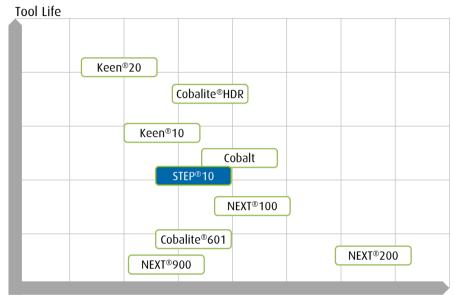
## **HARDNESS**







## PERFORMANCES - RELATIVE POSITIONING



STEP®10 : base powder to be mixed with additives to optimize tool performances

Free Cutting

### **APPLICATIONS**

	✓ Saw blade	Quarry wire	Grinding tool
TOOLS	✓ Core drill	☐ Single wire	☐ Polishing tool
	☐ Gang saw	☐ Multi-wires	Profiling tool
	☐ Limestone	☐ Sandstone	☐ Synthetic stone
MATERIALS	✓ Marble	✓ Concrete	☐ Ceramic
	✓ Granite	☐ Asphalt	Glass

Above information is indicative. For detailed recommendation, please contact us.

### SAFETY & MSDS

Material is packed in aluminized plastic bags under inert atmosphere Keep bags tightly closed and in a dry area

After opening and to avoid any oxydation, use the desiccant bags placed in the drums for further usage

Review and follow carefully the handling and exposure precautions detailed in the Material Safety Data Sheet (MSDS) or Information Product Sheet (IPS)

For more information, contact toolmaterials@eu.umicore.com