

TECHNICAL DATA SHEET

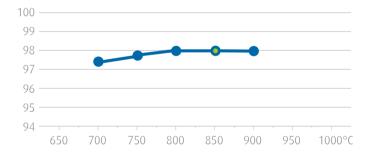
Cobalite®HDR

Base Pre-Alloyed Powder

TYPICAL PHYSICAL AND CHEMICAL DATA

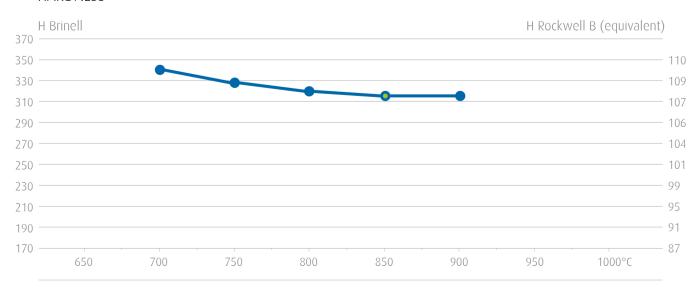
Cobalite®HDR powder		
Theoretical density (g/cm³)	8.19	
Scott density (g/cm³)	2.4	
Tap density (g/cm³)	3.5	
Oxygen content (wt %)	0.4	
Fisher gran size <i>(µm)</i>	5.5	

% RELATIVE DENSITY



SINTERING CONDITIONS Minimum sintering temperature 750°C Recommended sintering temperature 850°C Pressure 350kg/cm² Holding time 3 min

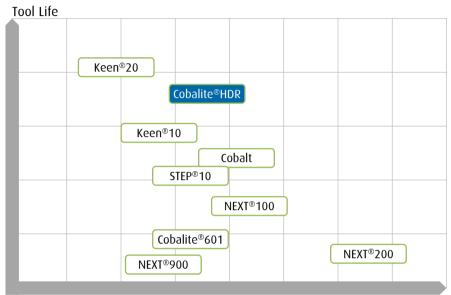
HARDNESS







PERFORMANCES - RELATIVE POSITIONING



Cobalite®HDR: base powder to be mixed with additives to optimize tool performances

Free Cutting

APPLICATIONS

	✓ Saw blade	Quarry wire	\checkmark Grinding tool	
TOOLS	☐ Core drill	\checkmark Single wire	Polishing tool	
	☐ Gang saw	☐ Multi-wires	Profiling tool	
Backing for laser welding from 750°C				
	✓ 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