

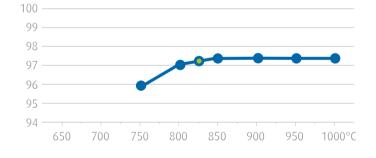
# TECHNICAL DATA SHEET

# NEXT®300 Base Pre-Alloyed Powder

### TYPICAL PHYSICAL AND CHEMICAL DATA

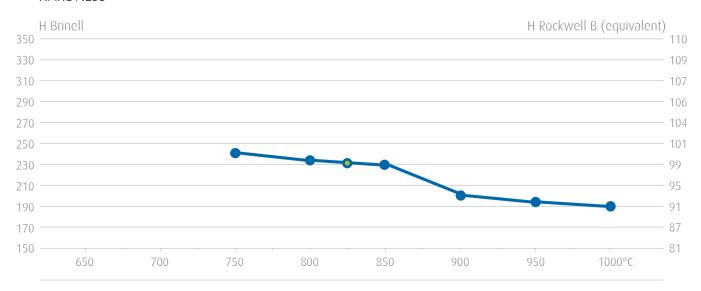
NEXT®300 powder		
Theoretical density (g/cm³)	8.12	
Scott density (g/cm³)	2.2	
Tap density (g/cm³)	3.2	
Oxygen content (wt %)	0.4	
Fisher gran size <i>(µm)</i>	3.8	

### % RELATIVE DENSITY



# SINTERING CONDITIONS Minimum sintering temperature 775°C Recommended sintering temperature 825°C Pressure 350kg/cm² Holding time 3 min

### **HARDNESS**



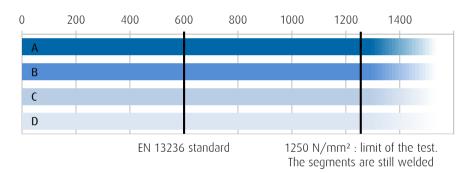




### PERFORMANCES AS BACKING

	Bond composition	Sintering temperature
Α	80% NEXT <sup>®</sup> 300 + 20% Fe CN <b>[MX3480]</b>	800°C
В	70% NEXT®300 + 30% Fe CN	800°C
С	60% NEXT®300 + 40% Fe CN	800°C
D	50% NEXT®300 + 50% Fe CN	800°C

Destructive bending test results (N/mm²)



### **APPLICATIONS**

Backing for laser welding from 775°C

# 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