TECHNICAL DATA SHEET

umicore
Cobalt & Specialty Materials

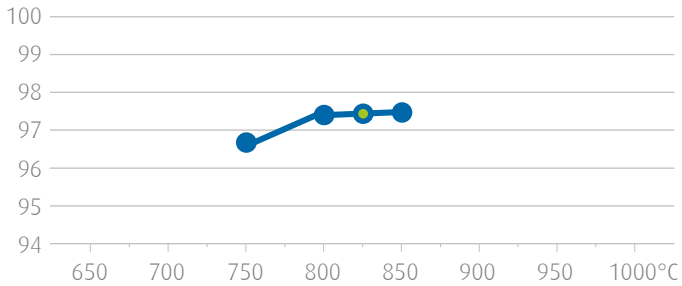
MX3480

Premixed Pre-Alloyed Powder • NEXT®300 + 20% Fe

TYPICAL PHYSICAL AND CHEMICAL DATA

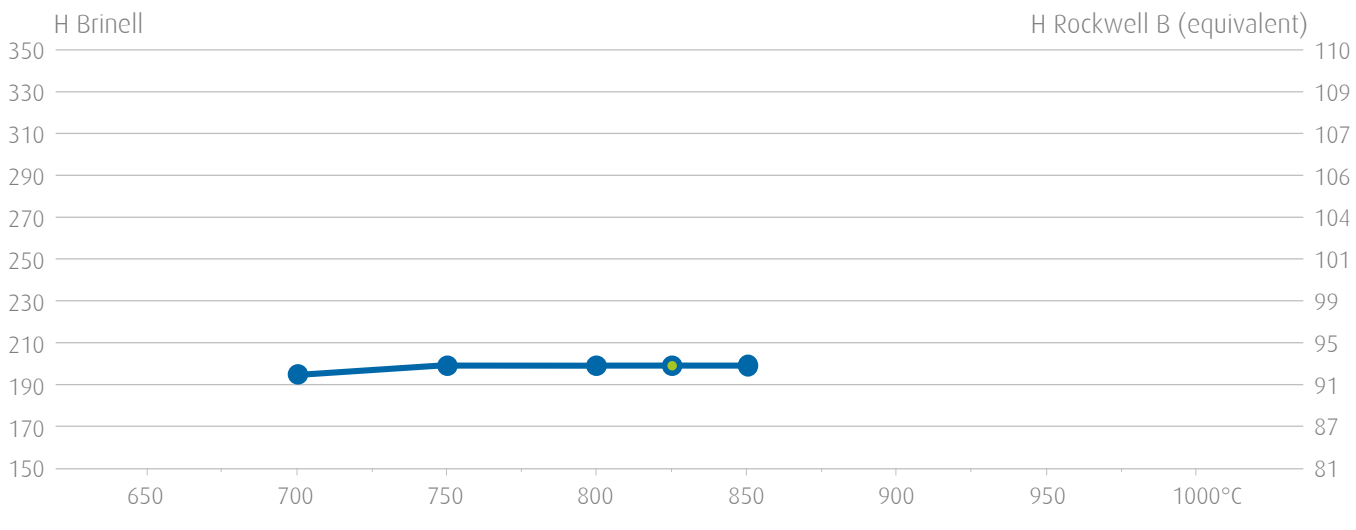
MX3480 powder		MX3481 granulated	
Theoretical density *(g/cm³)*	8.07	Scott density *(g/cm³)*	2.5
Scott density *(g/cm³)*	2.3	Tap density *(g/cm³)*	2.8
Tap density *(g/cm³)*	3.4	Hall flow *(s/50g)*	6.5
Oxygen content *(wt %)*	0.4	Binder *(wt%)*	2.75
		Granule size *(µm)*	63 - 450

% RELATIVE DENSITY



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

HARDNESS



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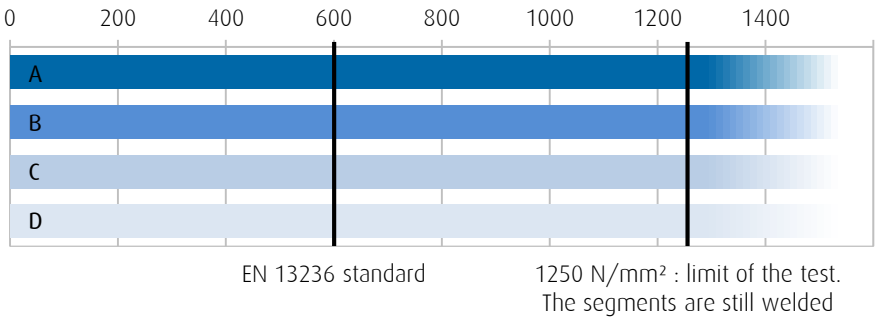
PERFORMANCES AS BACKING

	Bond composition	Sintering temperature
A	80% NEXT®300 + 20% Fe CN **[MX3480]**	800°C
B	70% NEXT®300 + 30% Fe CN	800°C
C	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