



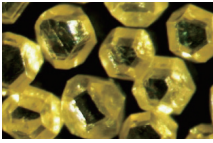
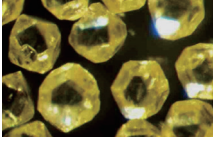
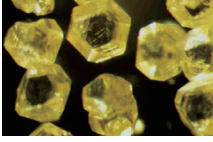
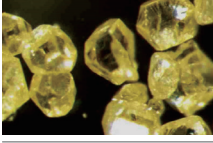
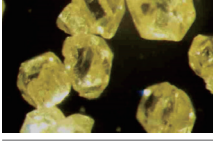
Diamond & CBN Powders for Grinding Wheel

IMD Metal Bond / IRD Resin Bond / IBN CBN / IMP Micron Powder

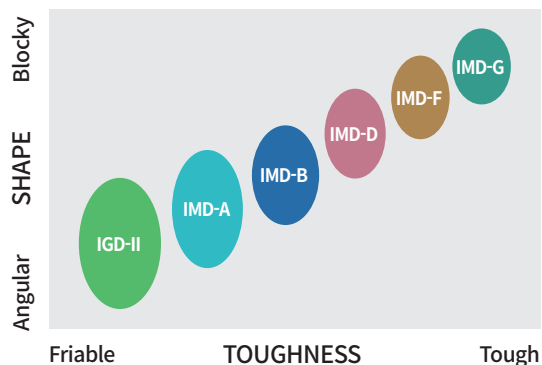
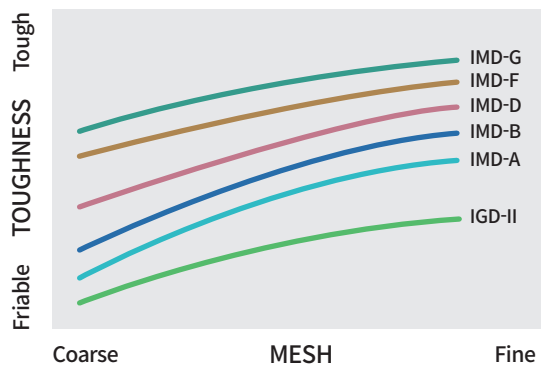


IMD

ILJIN Metal Bond Diamond

Grade	Mesh Size	Property & Application	Image
IMD-G	60/80 ~ 230/270	· Sawing of granite & ceramic tiles · Rough polishing of granite · Reinforced glass edge · Ferrite motor core	
IMD-F	60/80 ~ 400/500	· Sawing of granite & ceramic tiles · Rough polishing of granite · Reinforced glass edge · Ferrite motor core	
IMD-D	60/80 ~ 400/500	· Core drill of glass · Crystal & glass decorating groove · Silicon nitride · OD grinding · Middle stage grinding of crystal & granite	
IMD-B	60/80 ~ 400/500	· Glass edge-normal, TFT-LCD · Moto glass edge · Cut-off wheel for crystal or glass · Final polishing of granite · CMP pad conditioner	
IMD-A	60/80 ~ 400/500	· Fired tungsten carbide · Dental burrs · Beveling of glass and mirror · Cut-off wheel for glass & quartz · Ferrite grinding	
IGD-II	60/80 ~ 400/500	· Electroplated tools · Grinding of WC · Polishing of ceramic tiles, stones	

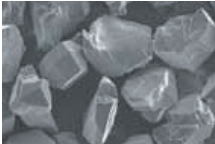
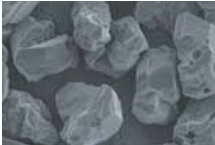
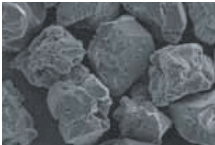
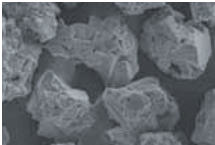
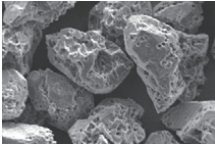
Toughness & Shape



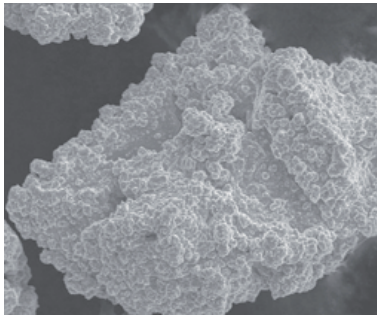
Ti, Ni, TN, Cr coating available upon request

IRD

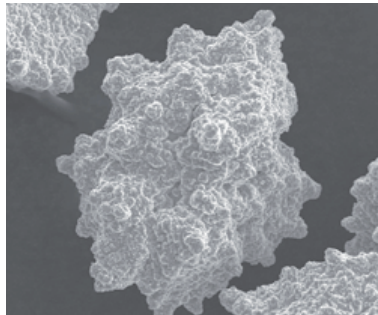
ILJIN Resin & Vitrified Bond Diamond

Grade	Mesh Size	Property & Application		Image
IRD-H	60/80 ~ 400/500	· WC + Steel combination	Hard work condition Hard bond Deep DOC Severe condition Long wheel life ↕ Soft work condition Soft bond High surface quality Low power consumption	
IRD-III	60/80 ~ 400/500	· WC + PCD combination · Tool grinding : PCD/PCBN, Tungsten carbide HSS, Ceramics		
IRD-II	60/80 ~ 400/500	· WC + PCD combination · Tool grinding : PCD/PCBN, Tungsten carbide HSS, Ceramics		
IRD-F	60/80 ~ 400/500	· Cermets, Ceramics · Ultra fine · Tungsten carbide		
IRD-MC	60/80 ~ 400/500	· Suitable toughness & micro-fracturing ability · High grinding efficiency through continuous generation of cutting edge · Tungsten Carbide flute grinding		

Ni coating

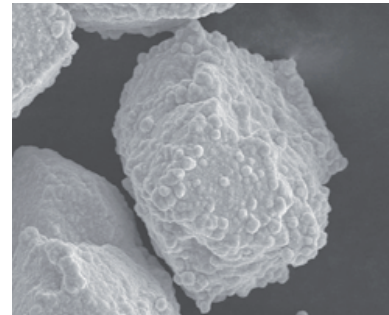


N56, N30(Cluster Type)
Ni coating : 30~60wt%



NS56(Spiky Type)
NS Coating : 56~60wt%

Cu coating



C50
Cu coating : 50wt%

IBN

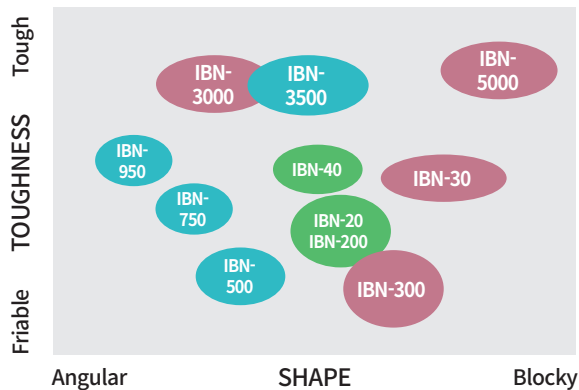
ILJIN Cubic Boron Nitride

Grade	Property & Application
IBN-20 IBN-40	- For general purpose - Medium toughness - Long tool life & low power
IBN-30	- Blocky shape - Stable grinding roughness - For metal bond tool - Heavy grinding condition
IBN-200 IBN-300	- Friable & irregular shape - Low grinding power - High efficiency production - Sharp cutting-edge
IBN-500 IBN-750 IBN-950	- High self-sharpening - Low grinding power consumption - Sharp cutting-edge - Camshaft grinding

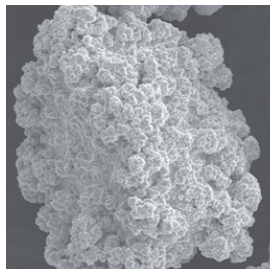
Grade	Property & Application
IBN-3000 IBN-5000	- Highest toughness - Self sharpening ability - High grinding load on CBN - Heavy grinding condition - Stable thermal toughness
IBN-7000	- Poly-like monocrystalline CBN - Grinding tough and hardened materials - Reduces the processing time
IBN-8000	Polycrystalline CBN for high removal rate and surface quality

IBN Series has continual cutting edge suitable for grinding hard ferrous material.
Available Standard Size: 60/80 ~ 400/500. Customized size also available upon request.

Toughness & Shape

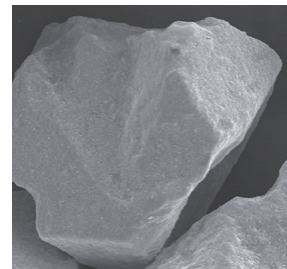


Ni coating



Ni coating : 30, 60wt%
Improves retention force for
Resin bond wheels

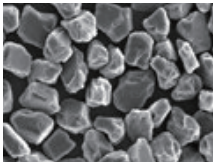
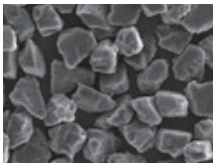
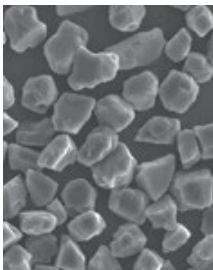
Ti coating



Ti coating : 5~15wt%
Improves retention force for
Metal bond wheels

IMP

ILJIN Micron Powder

	Grade	Bond/App.	Property	Image
Diamond	IMPM	Metal Bond	· High metal bonding properties · Superior toughness and impact strength · High wear resistance · High material removal rate superior Surface quality (finish) · Shorter process times	
	IMPR	Resin Bond	· Low toughness and impact strength · Superior friable shape · Continuous cutting edge · Superior surface quality (finish) · Shorter process times	
CBN	IMPCA	Ferrous metal application	· Color : Amber  · Regular shape uniform & constant size distribution · Superior surface quality (finish) · Shorter process times	
	IMPCB	Ferrous metal application	· Color : Black  · Regular shape uniform & constant size distribution · Superior surface quality (finish) · Shorter process times	

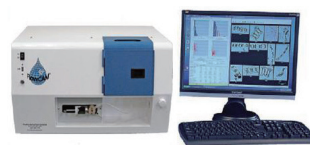
Range

Size Range(μm)	Mesh Size	Diamond		CBN	
		IMPM	IMPR	IMPCA	IMPCB
40-60	#400	V	V	V	V
40-50	#500	V	V	V	V
35-45	#550	V	V	V	V
30-40	#600	V	V	V	V
22-36	#700	V	V	V	V
20-30	#800	V	V	V	V
15-25	#1000	V	V	V	V
10-20	#1200	V	V	V	V
8-12	#1800	V	V	V	V
6-10	#2000	V	V	V	V
5-10	#2200	V	V	V	V
4-8	#3000	V	V	V	V
4-6	#4000	V	V	V	V
2-6	#5000	V	V	V	V
2-5	#7000	V	V	V	V
2-4	#8000	V	V	V	V
1-3	#11000	V	V	V	V
0-3	#12000	V	V	V	V
1-2	#13000	V	V	V	V
0-2	#14000	V	V	V	V
0-1	#60000	V	V		V
0-0.5	#100000	V	V		V
0-0.25	#200000	V	V		V

Ni & Ti coating available upon request

Quality Control

Shape Control

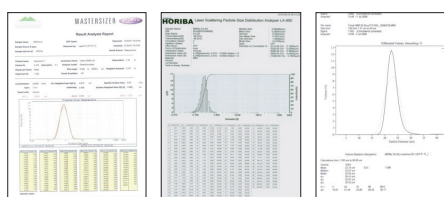


Particle image analyzer



Large particle control

PSD Control



Inspection equipments

 **Diamond** www.ILJINDIAMOND.com

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