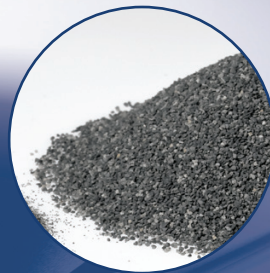
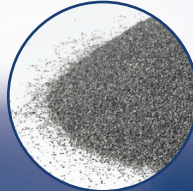


NV: COATED APPLICATIONS



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DESCRIPTION

NV is a sharp zirconia abrasive, manufactured by Gobain Specialty Grains & Powders, for use in abrasive products. It is manufactured from a patented, proprietary process involving the fusion of zircon sand, alumina, and other modifying agents.

NV (1620) is a weak shaped, untreated abrasive and NV (1622) is equivalent to 1620 but treated with a surface treatment for improved electrostatic properties for use in coated abrasives.

APPLICATIONS

NV is especially suited for use in coated abrasive applications where high performance and productivity are critical objectives.

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TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	53.0% - 60.0%	Na ₂ O	0.05% max
ZrO ₂	39.00% - 42.5%	CaO	0.13% max
TiO ₂	2.00 % max	MgO	0.05% max
SiO ₂	0.60 % max	Y ₂ O ₃	0.08% max
Fe ₂ O ₃	0.20% max		

GRAIN SIZES AVAILABLE

20, 24, 30, 36, 40, 50, 60, 80, 100, 120, 150, 180, and 220

TYPICAL PHYSICAL PROPERTIES

Crystal Size	10-15 microns
Color	Gray
True Density	4.68 g/cc
Grading	Modified FEPA P
Vickers Hardness	19 GPA for 50 gram load
Melting Point	1890°C
Loose Pack Density	1.90 - 2.30 gms/cc
Bulk Density Range	126 – 146 lb/ft ₃ (depending on grain size)

TYPICAL LOOSE PACK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
P20	2.120 – 2.220	P40	1.900 – 2.06	P100	1.82 – 1.920	P220	1.810 – 1.900
P24	2.060 – 2.160	P50	1.88 – 1.970	P120	1.84 – 1.930		
P30	2.000 – 2.160	P60	1.85 – 1.950	P150	1.84 – 1.930		
P36	1.900 – 2.14	P80	1.87 – 1.970	P180	1.84 – 1.930		

This product information is NOT a specification. It is offered in good faith only as a general description of the product. **Washington Mills makes no warranty of merchantability or of fitness for any particular purpose.** The product chemistry and other characteristics may vary or contain trace elements not specifically listed. If your intended application for this product is so critical that relatively minor variations in chemistry or physical properties could cause problems or damage to your process or product, please contact our office for further assistance.

NV: COATED APPLICATIONS (PG. 2)

NV SPECIALTY ABRASIVE FOR COATED ABRASIVE APPLICATIONS MODIFIED* FEPA "P" SIZING CONVENTION

Size	Control Screen Coarse Grain	Oversize	First Nominal	Second Nominal	Third Nominal	Control Screen Fines Grain
P20	$\frac{+12}{0}$	$\frac{+16}{0-7}$	$\frac{+16+18}{34-50}$	$\frac{+16+18+20}{80-92}$	$\frac{+16+18+20+25}{96+}$	$\frac{-25}{0-4}$
P24	$\frac{+14}{0}$	$\frac{+18}{0-1}$	$\frac{+18+20}{10-18}$	$\frac{+18+20+25}{52-70}$	$\frac{+18+20+25+30}{92+}$	$\frac{-30}{0-8}$
P30	$\frac{+16}{0}$	$\frac{+20}{0-1}$	$\frac{+20+25}{10-18}$	$\frac{+20+25+30}{52-70}$	$\frac{+20+25+30+35}{92+}$	$\frac{-35}{0-8}$
36T	$\frac{+18}{0}$	$\frac{+25}{0-1}$	$\frac{+25+30}{14-28}$	$\frac{+25+30+35}{56-76}$	$\frac{+25+30+35+40}{90+}$	$\frac{-40}{0-10}$
40T	$\frac{+25}{0}$	$\frac{+35}{4-15}$	$\frac{+35+40}{48-73}$	$\frac{+35+40+45}{85-97}$	$\frac{+35+40+45+50}{95+}$	$\frac{-50}{0-5}$
50T	$\frac{+30}{0}$	$\frac{+40}{3-10}$	$\frac{+40+45}{36-52}$	$\frac{+40+45+50}{80-92}$	$\frac{+40+45+50+60}{94+}$	$\frac{-60}{0-6}$
60T	$\frac{+35}{0}$	$\frac{+45}{0-7}$	$\frac{+45+50}{15-35}$	$\frac{+45+50+60}{56-74}$	$\frac{+45+50+60+70}{92+}$	$\frac{-70}{0-8}$
80T	$\frac{+45}{0}$	$\frac{+60}{0-7}$	$\frac{+60+70}{15-35}$	$\frac{+60+70+80}{56-74}$	$\frac{+60+70+80+100}{92+}$	$\frac{-100}{0-8}$
P100	$\frac{+50}{0}$	$\frac{+70}{0-1}$	$\frac{+70+80}{10-18}$	$\frac{+70+80+100}{52-70}$	$\frac{+70+80+100+120}{92+}$	$\frac{-120}{0-8}$
P120	$\frac{+70}{0}$	$\frac{+100}{0-7}$	$\frac{+100+120}{34-50}$	$\frac{+100+120+140}{80-92}$	$\frac{+100+120+140+170}{96+}$	$\frac{-170}{0-4}$
P150	$\frac{+80}{0}$	$\frac{+120}{0-3}$	$\frac{+120+140}{20-32}$	$\frac{+120+140+170}{66-84}$	$\frac{+120+140+170+200}{96+}$	$\frac{-200}{0-4}$
P180	$\frac{+100}{0}$	$\frac{+140}{0-2}$	$\frac{+140+170}{10-20}$	$\frac{+140+170+200}{50-74}$	$\frac{+140+170+200+230}{90+}$	$\frac{-230}{0-10}$
P220	$\frac{+120}{0}$	$\frac{+170}{0-2}$	$\frac{+170+200}{10-20}$	$\frac{+170+200+230}{50-74}$	$\frac{+170+200+230+270}{90+}$	$\frac{-270}{0-10}$

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