



GNP Graystar

Specialty Materials



An ISO 9001:2015 Certified Company

www.GNPGraystar.com

Imperial & Metric Conversions

LINEAR MEASUREMENTS

1 cm =	0.3937 in.	1 in. =	2.540 cm
1 m =	3.2808 ft. 1.0936 yd.	1 ft. =	30.48 cm
1 km =	0.6214 Mile (Mi.)	1 yd. =	91.44 cm
		1 Mi. =	1.6093 km

SURFACE AREA MEASUREMENTS

1 m ² =	10.7639 sq. ft. 1.1960 sq. yd.	1 sq. ft. =	0.0929 m ²
		1 sq. yd. =	0.8361 m ²

VOLUME & LIQUID MEASUREMENTS

1 l =	1.76 pints 0.22 imperial gallon 0.2642 US gallon	1 pint =	0.5683 l
		1 Imp.gal. =	4.5461 l
		1 US gal. =	3.7854 l
1 m ³ =	35.314 cu. ft. 1.3079 cu. yd.	1 cu. ft =	0.0283 m ³
		1 cu. yd. =	0.7645 m ³

DENSITY MEASUREMENTS

1 g/cm ³ =	62.428 lb./ft ³	1 lb./ft ³ =	0.016 g/cm ³
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WEIGHT MEASUREMENTS

1 kg =	2.2046 lb.	1 lb. =	0.4536 kg
1 metric ton, t (1000 kg) =	1.1023 short tons	1 sh. tn (2000 lb.) =	0.9072 t

GNP Graystar Product Lines

ALUMINA

Tabular Alumina
Calcined Alumina
Precision Calcined Alumina
Bubble Alumina
Spherical Alumina
Alumina Tri-Hydrate
Zeolite
Boehmite
Fused Aluminum Oxide
Calcined Bauxite

SILICON CARBIDE

Green Silicon Carbide
Black Silicon Carbide
Ready-to-Press Powders
Submicron Powders
Beta Silicon Carbide

BORON CARBIDE

Micro and Macro Grit
Refractory 325/F
Submicron Powder
Sintering Aid Powders
Nuclear Grade Powders

BORIDES & NITRIDES

Aluminum Nitride
Boron Nitride
Silicon Nitride
Titanium Diboride

SPINEL & MULLITE

Fused Magnesia-Alumina Spinel
Sintered Magnesia-Alumina Spinel
White Fused Mullite
Fused Zirconia Mullite

GRINDING MEDIA

Alumina Grinding Media
Zirconia Grinding Media
Silicon Carbide Grinding Media

ZIRCONIA

FUSED ZIRCONIA
Magnesia-Stabilized
Calcia-Stabilized
Yttria-Stabilized
Monoclinic
Bubble Zirconia
CHEMICAL GRADE ZIRCONIA
Magnesia-Stabilized
Yttria-Stabilized
Monoclinic

ALUMINA ZIRCONIA

Alumina Zirconia 25%
Alumina Zirconia 40%

ZIRCONIA-SILICATE CERAMIC BEADS

RARE EARTHS

Calcined Yttrium Oxide
Ytterbium Oxide
Fused Yttria

SPECIALTY SILICA

Fused Silica
High-Purity Milled Silica Powder
Silica Fume
Spherical Fused Silica

GARNET/WATERJET

Blasting Abrasives
Waterjet Abrasives
Waterjet Spare Parts

NOZZLES

Boron Carbide Nozzles
Tungsten Carbide Nozzles

SILICON METAL

DIAMOND POWDER

GLASS BEADS

COATED ABRASIVES

NON-WOVEN ABRASIVES



GNP Graystar
Specialty Materials

Periodic Table of the Elements

																		13 3A	14 4A	15 5A	16 6A	17 7A	18 8A	
1 IA 1A																	2 IIA 2A							2 VIIIA 8A
1 H Hydrogen 1.008																	2 He Helium 4.003							
3 Li Lithium 6.941	4 Be Beryllium 9.012																	5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180	
11 Na Sodium 22.990	12 Mg Magnesium 24.305	3 III B 3B	4 IV B 4B	5 VB 5B	6 VIB 6B	7 VIIB 7B	8 VIII 8		9 VIII 9	10 VIII 10	11 IB 1B	12 IIB 2B	13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.065	17 Cl Chlorine 35.453	18 Ar Argon 39.948						
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.631	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 84.796							
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.711	51 Sb Antimony 121.750	52 Te Tellurium 127.6	53 I Iodine 126.905	54 Xe Xenon 131.294							
55 Cs Cesium 132.905	56 Ba Barium 137.327	57-71 Lanthanide Series	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.221	78 Pt Platinum 195.085	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium 209	85 At Astatine 208.98	86 Rn Radon 222.018							
87 Fr Francium 223.029	88 Ra Radium 226.025	89-103 Actinide Series	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [265]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [281]	111 Rg Roentgenium [282]	112 Cn Copernicium [285]	113 Uut Ununtrium [288]	114 Fl Flerovium [289]	115 Uup Ununpentium [292]	116 Lv Livermorium [293]	117 Uus Ununseptium [294]	118 Uuo Ununoctium [294]							

57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.242	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967
89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]

- Alkali Metal
- Alkaline Earth
- Transition Metal
- Basic Metal
- Semimetal
- Nonmetal
- Halogen
- Noble Gas
- Lanthanide
- Actinide

Periodic Table

Hardness Scale Chart

Substance	Mohs Hardness
Talc	1
Gypsum	2
Sodium Bicarbonate	2.5
Calcite	3
Plastic Media	3-4
Fluorite	4
Enamel	5
Glass Bead	5.5
Silica Sand	6-7
Zirconium Silicate	6.5-7.5
Copper Slag	7
Glass	7
Staurolite	7-7.5
Garnet	7-8
Spinel	~8
Steel Shot/Grit	8
Zirconia	8
Aluminum Oxide	9
Tungsten Carbide	9
Silicon Carbide	9-10
Boron Carbide	9-10
Diamond	10

GNP Graystar Tolling & Lab Services

We offer several services to our customers because we know that everyone's products and applications do not always fall within standard product offerings.

CUSTOM BLENDING

PARTICLE SIZING

CUSTOM SCREENING

POWDER FLOW

MAGNETIC SEPARATION

PARTICLE SHAPE

MAGNETIC ANALYZER

LOSS OF IGNITION

REPACKAGING

DENSITY MEASURING

SPRAY DRYING

SPECIFIC SURFACE AREA

MOISTURE ANALYZER

VISCOSITY
MEASUREMENT



Thermal Properties

Compound	Density g/cm ³	Specific Heat Capacity J/(gk)	Youngs Modulus Gpa	Thermal Conductivity W/(mK)	Coefficient of Linear Expansion x10 ⁻⁴ /K	Melting Temp (°C)	Molar Mass (g/mol)
Aluminum Oxide (Al ₂ O ₃)	3.94	0.77	220-350	24-39	5.4	2050	101.96
Yttrium Oxide (Y ₂ O ₃)	5.01	0.45	200-205	8-12	7.3	2410	225.81
Zirconium Dioxide (ZrO ₂)	5.7-6.6	0.45	190-210	1.5-3	7-12	2680	123.22
Mullite (3Al ₂ O ₃ ·2SiO ₂)	3.2	0.75	100-200	2-15	4.5-5.6	1850	426.08
Silicon Dioxide (SiO ₂)	2.19- 2.66	0.75	30-80	1-11	0.4-10.3	1713	60.1
Silicon Carbide (SiC)	3.21	.066	150-450	100-350	3.3	2300	40.1
Boron Carbide (B ₄ C)	2.51	0.92	390-440	30-45	6-Apr	2350	195.86
Boron Nitride	2.5-3.45	0.8	14-47	10-35	1.8	2968	24.83
Silicon Nitride (Si ₃ N ₄)	3.44	0.7	80-330	15-25	1.7-3.8	1900	140.28
Aluminum Nitride (AlN)	3.26	0.71	320	70-285	2.5-5.7	2200	40.99
Titanium Diboride (TiB ₂)	4.52	0.63	370-570	60-120	5.6-10	2970	69.49
Carbon-Diamond (C)	3.51	6.155	1220	2000	0.9	3550	12.01

ANSI Table 2 & FEPA F Specifications - Macrogrit

Grit No.	Sieve through which 100% must pass	Control Sieve		Max. of oversize on control *sieve (%)	Min. through control *sieve and retained		Cumulative min. through control sieve and retained		Max. of 3% thru *sieve No.
		No.	Opening (in.)		%	on sieve No.	%	on sieve No.	
4	5/16	3.5	0.223	20	40	4	70	4 & 5	6
5	.266	4	0.187	20	40	5	70	5 & 6	7
6	3.5	5	0.157	20	40	6	70	6 & 7	8
7	4	6	0.132	20	40	7	70	7 & 8	10
8	5	7	0.111	20	45	8	70	8 & 10	12
10	6	8	.0937	20	45	10	70	10 & 12	14
12	7	10	.0787	20	45	12	70	12 & 14	16
14	8	12	.0661	20	45	14	70	14 & 16	18
16	10	14	.0555	20	45	16	70	16 & 18	20
20	12	16	.0469	20	45	18	70	18 & 20	25
24	16	20	.0331	25	45	25	65	25 & 30	35
30	18	25	.0278	25	45	30	65	30 & 35	40
36	20	30	.0234	25	45	35	65	35 & 40	45
46	30	40	.0165	30	40	45	65	45 & 50	60
54	35	45	.0139	30	40	50	65	50 & 60	70
60	40	50	.0117	30	40	60	65	60 & 70	80
70	45	60	.0098	25	40	70	65	70 & 80	100
80	50	70	.0083	25	40	80	65	80 & 100	120
90	60	80	.0070	20	40	100	65	100 & 120	140
100	70	100	.0059	20	40	120	65	120 & 140	200
120	80	120	.0049	20	40	140	65	140 & 170	230
150	100	140	.0041	15	40	200	65	200 & 230	325
180	120	170	.0036	15	40	200&230	65	200, 230, 270	-
220	140	200	.0029	15	40	230&270	65	230, 270, 325	-
240	170	200	.0029	5	8	230&270	38	230, 270, 325	-

Table 2: Is the allowable limits for the sizing of abrasive grain for grinding wheel manufacturer and general polishing purposes, as taken from the ANSI B74.12 - 2018 Specifications for Macrogrit abrasive grain sizing.

**Sieves are those from the United States Sieves Series.*

The following chart should be used only for approximating the abrasive size required to obtain a specified anchor pattern. The standard metal used to obtain these results was hot rolled steel with tightly adhering mill scale. The resulting anchor pattern will vary with the method used for measuring depths as well as any one of numerous other variables (type and hardness of steel, thickness of mill scale, degree of cleaning specified, etc...). This information can be used for centrifugal wheel as well as pressure blasting. Pressure blasting should be done using a 90 - 100 psi nozzle pressure. The depth of anchor pattern used in this chart is an average and not a minimum or maximum depth obtainable.

1.0 mil = 25 microns

Abrasive	PROFILE				
	Grade 1 0.5 - 1.5 mils	Grade 2 1.0 - 2.5 mils	Grade 3 2.0 - 3.5 mils	Grade 4 3.0 - 5.0 mils	Grade 5 4.0 - 6.0 mils
Garnet (Type I, Class A)	150	150	120, 80, 30/60	30/60, 36	16
Aluminum Oxide (Type II, Class A)	70, 80, 90, 100, 120, 150, 180	46, 54, 60, 70, 80, 90	24, 30, 36, 46, 54	16, 20, 24, 30	10, 12, 14, 16
Silicon Carbide (Type II, Class A)	100, 120	60, 80, 90	46, 54	30, 36	16, 20, 24
Steel Grit (Type II, Class A)	G80, G120	G50	G40	G25	G12, G16, G18

Grit No.	*Sieve through which 100% must pass	Control *Sieve		Max. of oversize on Control *Sieve (%)	Min. through Control *Sieve and Retained		Cumulative Min. through Control *Sieve and Retained		Max of 5% through *Sieve No.
		No.	Opening (inches)		%	On Sieve No.	%	On Sieve No.	
16	8	14	0.0555	25	35	16	70	16 & 18	25
20	10	16	0.0469	25	35	18	70	18 & 20	30
24	14	18	0.0394	25	35	20	60	20 & 25	40
30	16	20	0.0331	30	45	30	60	30 & 35	45
36	18	25	0.0278	15	50	35	80	35 & 40	50
46	25	40	0.0165	30	30	45	55	45 & 50	70
54	30	45	0.0139	35	25	50	60	50 & 60	80
60	35	50	0.0117	35	35	60	60	60 & 70	100
70	40	60	0.0098	25	35	70	65	70 & 80	120
80	45	70	0.0083	35	30	80	60	80 & 100	140
90	50	80	0.0070	25	35	100	60	100 & 120	170
100	60	100	0.0059	25	30	120	55	120 & 140	230
120	70	120	0.0049	25	20	140	50	140 & 170	270
150	80	140	0.0041	25	30	200	60	200 & 230	325
180	80	170	0.0035	20	30	200 & 230	60	200, 230, & 270	-
220	100	200	0.0029	15	30	230 & 270	50	230, 270, & 325	-
240	120	200	0.0029	10	5	230 & 270	30	230, 270, & 325	-

Table 3 is the allowable limits for the sizing of abrasive grain for use in other general industrial uses such as pressure blasting and Lithoplate graining, as taken from the ANSI B74.12 - 2018 Specifications for Macrogrit abrasive grain sizing. *Sieves are those from the United States Sieves Series

Glass Bead Sizing Chart

US Sieve	MIL Spec (PRF-9954D)	MIL Spec (S-13165C)	SAE Intl. (J1173)	Inches Max-Min	Micron Max-Min
12-14	No.1			0.0661-0.0555	1679-1410
14-20	No. 2			0.0555-0.0331	1410-841
20-30	No. 3	331	GB-70	0.0331-0.0234	841-594
25-35		280		0.0283-0.0197	719-500
25-45				0.0278-0.0139	706-353
30-40	No. 4	232	GB-50	0.0234-0.0165	594-419
35-45		197		0.0197-0.0171	500-434
40-50	No.5	165	GB-35	0.0165-0.0117	419-297
40-60				0.0165-0.0098	419-249
40-70				0.0165-0.0083	419-211
45-60		138		0.0171-0.0098	434-249
50-70	No. 6	117	GB-25	0.0117-0.0083	297-211
50-80				0.0117-0.007	297-178
60-80	No. 7	98	GB-20	0.0098-0.007	249-178
60-100				0.0098-0.0059	249-150
60-120				0.0098-0.0049	249-124
70-100	No. 8	83	GB-18	0.0083-0.0059	211-150
70-140				0.0083-0.0041	211-104
80-120	No. 9	70	GB-15	0.007-0.0049	178-124
100-170	No. 10			0.0059-0.0035	150-89
100-200				0.0059-0.0029	150-74
120-170				0.0049-0.0035	124-89
120-200	No. 11			0.0049-0.0029	124-74
120-270				0.0049-0.0021	124-53
140-230	No. 12			0.0041-0.0025	104-64
140-270				0.0041-0.0021	104-53
170-230				0.0035-0.0025	89-64
170-325	No. 13			0.0035-0.0017	89-43
200-325				0.0029-0.0017	74-43
230-325		24		0.0025-0.0017	64-43

Grain Size Chart

mm	microns	in.	ASTM sieve	Tyler sieve	Grit Size
5.6	5600	0.22	3½	3½	-
4.75	4750	0.187	4	4	4
4	4000	0.157	5	5	5
3.35	3350	0.132	6	6	6
2.8	2800	0.11	7	7	7
2.36	2360	0.093	8	8	8
2	2000	0.079	10	9	10
1.7	1700	0.067	12	10	12
1.4	1400	0.055	14	12	14
1.18	1180	0.046	16	14	16
1	1000	0.039	18	16	20
0.85	850	0.033	20	20	22
0.71	710	0.028	25	24	24
0.6	600	0.024	30	28	30
0.5	500	0.02	35	32	36
0.43	425	0.018	40	35	40
0.36	355	0.014	45	42	46
0.3	300	0.012	50	48	54
0.25	250	0.01	60	60	60
0.21	212	0.008	70	65	70
0.18	180	0.007	80	80	80
0.15	150	0.006	100	100	90
0.13	125	0.005	120	115	100
0.11	106	0.004	140	150	120
0.08	75	0.003	200	200	150
0.06	63	0.0025	230	250	180
0.05	53	0.0021	270	270	220
0.05	45	0.0018	325	325	240

The terms sieve and mesh are interchangeable.

Diamond Powder Sizing Chart

Size			D10	D50	D90	D99
0.025			>0.02	0.11-0.13	<0.3	<0.4
0-0.5	W0.5	60000#	>0.05	0.21-0.25	<0.5	<0.7
0-1	W1	28000#	>0.05	0.4-0.5	<1.0	<1.4
0-1.5			>0.1	0.6-0.75	<1.5	<2.1
0.2	W1.5	14000#	>0.1	0.85-1.0	<2.0	<2.8
0.5-1			>0.4	0.65-0.75	<1.2	<1.4
1-2		1300#	>0.90	1.35-1.5	<2.2	<2.8
1-3	W2.5	1200#	>1.0	1.7-1.9	<3.0	<4.2
2-3			>1.4	2.0-2.3	<3.2	<4.2
2-4	W3.5	8000#	>1.7	2.65-3.0	<4.1	<5.6
2.5-5	W5	6000#	>2.3	3.1-3.4	<5.1	<7.0
3-5			>2.5	3.3-3.8	<5.4	<7.5
3-6		5000#	>2.8	4.1-4.4	<6.0	<8.4
4-6			>3.2	4.4-4.8	<6.2	<8.4
5-7	W7	3000#	>3.5	4.9-5.5	<7.2	<9.8
4-8	W7	3000#	>3.8	5.5-5.9	<8.0	>11.2
5-10	W10		>4.8	6.5-7.0	<10.0	>14.0
7-10			>5.5	7.5-8.0	<11.0	<14.0
6-12		1800#	>5.8	8.0-8.5	<12.0	<16.8
7-14	W14	1600#	>7.0	9.5-10.0	<14.0	<19.6
10-15			>7.5	10.0-11.0	<15.5	<20.5
8-16			>8.0	11.0-12.0	<16.0	<22.4
10-20	W20	1200#	>9.8	13.5-14.5	<20.0	<28.0
12-22		1100#	>11.5	15.5-16.0	<22.5	<30.8
15-25		1000#	>13	17.5-18.5	<25.5	<35.0
20-30	W28	800#	>16	21.0-22.5	<31.5	<42.0
20-40			>20.0	25.0-27.0	<40.0	<56.0
22-36		700#	>18.0	26.0-29.0	<36.5	<50.0
30-40	W40	600#	>22.0	30.0-32.0	<42.0	<56.0
36-54		500#	>28.0	36.0-39.0	<54.0	<76.0
40-50	W50	500#	>26.0	36.0-39.0	<51.0	<70.0
4-60	W60	400/500#	>30.0	40.0-44.0	<62.0	<84.0

Microgrits Comparison (50% point for F, P, and JIS)

µm	Median Value of...		
	F	P	JIS
0.4			10000
0.7			9000
1.2			8000
2.0			6000
3.0	1200		4000
4.0			3000
4.5	1000		
5.5			2500
6.5	800		
6.7			2000
8.0			1500
8.4		2500	
9.3	600		
9.5			1200
10.3		2000	
11.5			1000
12.6		1500	
12.8	500		
14.0			800
15.3		1200	
17.0			700

µm	Median Value of...		
	F	P	JIS
17.3	400		
18.3		1000	
20.0			600
21.8		800	
22.8	360		
25.0			500
25.8		600	
29.2	320		
30			400
30.2		500	
35.0		400	360
36.5	280		
40.0			320
40.5		360	
44.5	240		
56.2		320	
48.0			280
52.2		280	
53.0	230		
57.0			240
58.5		240	

JIS Microgrit Standard

Grit Size	D0% Value Max-microns	D3% Value Max-microns	D50% Value Max-microns	D94% Value Min-microns
# 240	127	103	54.0-60.0	40
# 280	112	87	45.0-51.0	33
# 320	98	74	37.5-42.5	27
# 360	86	66	33.0-37.0	23
# 400	75	58	28.0-32.0	20
# 500	63	50	23.0-27.0	16
# 600	53	43	18.5-21.5	13
# 700	45	37	15.7-18.3	11
# 800	38	31	13.0-15.0	9.0
# 1000	32	27	10.5-12.5	7.0
# 1200	27	23	8.7-10.3	5.5
# 1500	23	20	7.4-8.6	4.5
# 2000	19	17	6.1-7.3	4.0
# 2500	16	14	5.0-6.0	3.0
# 3000	13	11	3.5-4.5	2.0
# 4000	11	8.0	2.6-3.4	1.3
# 6000	8.0	5.0	1.6-2.4	0.8
# 8000	6.0	3.5	0.9-1.5	0.6

JIS Standard (JIS R 6001: 1998): Grain Size Distribution of Microgrits

Values based on Coulter Multisizer in Microns

FEPA F Standard - Microgrits

Grit Size	D3% Value Max	D50% Value	D94% Value Min
Designation	(microns)	(microns)	(microns)
F 240	70	42.5 - 46.5	28
F 280	59	35.0 - 38.0	22
F 320	49	27.7 - 30.7	16.5
F 360	40	21.3 - 24.3	12
F 400	32	16.3 - 18.3	8
F 500	25	11.8 - 13.8	5
F 600	19	8.3 - 10.3	3
F 800	14	5.5 - 7.5	2
F 1000	10	3.7 - 5.3	1
F 1200	7	2.5 - 3.5	1 (at D80%)

FEPA Standard 42.2: 2006, Table 1: Grain Size Distribution of Microgrits

Values apply to measurements by means of photosedimentometer.



Loose Abrasives



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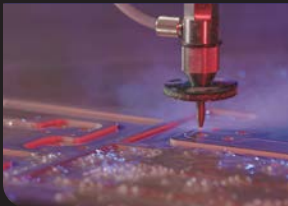


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