

SHAC

SHINELINE ABRASIVES

SHANGHAI SHINELINE ABRASIVES CO.,LTD

Product Catalogue

V.2023.3

About Us

Shanghai Shinline Abrasives Co., Ltd is specialized in abrasives grit and micro powder since 2002 in Shanghai, China. We would like to offer you the best quality products and services.

As a professional abrasives supplier and exporter in China, we are able to supply our products with competitive prices. We have two plants and 12 producing lines to make grit and micropower at FEPA standard, JIS standard, China GB standard in large quantities. For your special requirement, the irregular grit and powder could be produced according to your requirement. We have lab and technicians to help us keep the products at high quality.

In our company, any inquiries would be responded in 24 hours. All problems on orders and products would be solved in time.

We are constantly improving the quality and producing lines for more strict requirements of our partners.

Shinline Abrasives could be your reliable partner on abrasives.

Product List

White Aluminum Oxide

Brown Aluminum Oxide

Green Silicon Carbide

Black Silicon Carbide

Abrasives Garnet

Black Aluminum Oxide

Normal Standard

GB(China standard)

FEPA(ISO)

JIS(Japan standard)

ANSI(US standard)

Special size powder

0-0.5MM, 0-1MM, 1-3MM, -80MESH, -180MESH,
-325MESH etc.

Comparison table of size arrange

Grit	Size Arrange(μ m)			
	China GB (GB/T 2481.1-1998)	ISO8486.1:1996 & FEPA42GB-1984	JIS R6001-1998	ANSI B74.12-1992
F4	5600~4750			5600~4750
F5	4750~4000			4750~4000
F6	4000~3350			4000~3350
F7	3350~2800			3350~2800
F8	2800~2360		2800~2360	2800~2360
F10	2360~2000		2360~2000	2360~2000
F12	2000~1700		2000~1700	2000~1700
F14	1700~1400		1700~1400	1700~1400
F16	1400~1180		1400~1180	1400~1180
F20	1180~1000		1180~1000	1180~1000
F22	1000~850		1000~850	-
F24	850~710		850~710	850~710
F30	710~600		710~600	710~600
F36	600~500		600~500	600~500
F40	500~425		500~425	-
F46	425~355		425~355	425~355
F54	355~300		355~300	355~300
F60	300~250		300~250	300~250
F70	250~212		250~212	250~212
F80	212~180		212~180	212~180
F90	180~150		180~150	180~150
F100	150~125		150~125	150~125
F120	125~106		125~106	125~106
F150	106~75		106~75	106~75
F180	90~63		90~63	90~63
F220	75~53		75~53	75~53
F240	-		-	75~53

Micro powder

China GB				JIS R6001-1998			ANSI B74.12-1992		FEPA 42GB-1984		
									DIN 69101-1985		
GB/T2481.2-1998		GB/T9258.1-2000		Grit	d50(μ m)		Grit	d50(μ m)	Grit	d50(μ m)	
Grit	d50 (μ m)	Grit	d50 (μ m)		Sedimentation tube menth od	Electric resistance method				Sedimentation tube menth od	Standard Werte der Mikro- Frelhe
		P240	58.5±2.0	240	60.0±4.0	57.0±3.0					
		P280	52.2±2.0	280	52.0±3.0	48.0±3.0					
F230	53.0±3.0	P320	46.2±1.5	320	46.0±2.5	40.0±2.5	240	53.5-50	F230	53.0±3.0	50.0±3.0
F240	44.5±2.0	P360	40.5±1.5	360	40.0±2.0	35.0±2.0			F240	44.5±2.0	42.0±2.0
		P400	35.0±1.5	400	34.0±2.0	30.0±2.0	280	44-40.5			
F280	36.5±1.5	P500	30.2±1.5	500	28.0±2.0	25.0±2.0	320	36-32.5	F280	36.5±1.5	34.5±1.5
F320	29.2±1.5	P600	25.8±1.0	600	24.0±1.5	20.0±1.5	360	28.8-25.8	F320	29.2±1.5	27.7±1.5
F360	22.8±1.5	P800	21.8±1.0	700	21.0±1.3	17.0±1.3	400	23.6-20.6	F360	22.8±1.5	21.6±1.5
F400	17.3±1.0	P1000	18.3±1.0	800	18.0±1.0	14.0±1.0	500	19.7-16.7	F400	17.3±1.0	16.5±1.0
F500	12.8±1.0	P1200	15.3±1.0	1000	15.5±1.0	11.5±1.0	600	16-13	F500	12.8±1.0	12.3±1.0
		P1500	12.6±1.0	1200	13.0±1.0	9.5±0.8					
F600	9.3±1.0	P2000	10.3±0.8	1500	10.5±1.0	8.0±0.6	800	12.3-9.8	F600	9.3±1.0	9.0±1.0
		P2500	8.4±0.5	2000	8.5±0.7	6.7±0.6	1000	9.3-6.8			
F800	6.5±1.0			2500	7.0±0.7	5.5±0.5			F800	6.5±1.0	6.3±1.0
F1000	4.5±0.8			3000	5.7±0.5	4.0±0.5	1200	6.5-4.5	F1000	4.5±0.8	4.5±0.8
F1200	3.0±0.5			4000		3.0±0.4			F1200	3.0±0.5	3.1±0.5
				6000		2.0±0.4					
				8000	1.2±0.3						

White Aluminum Oxide(WA)

It has high purity of Al_2O_3 99%-99.9%.

It's white color and has little higher hardness and toughness.

The abrasive tools made of it are suitable for fine grinding of high carbon steel, high-speed steel and stainless steel.

Abrasive powder of finer grit size, can also be used for precision casting and high-grade refractory, for sandblasting, and abrasive etc.

Symbol	Range of the grain	Chemical composition (%)		True density	Shape of grain
		Al_2O_3	Na_2O		
WA	F12-80	≥ 99.70	≤ 0.2	≥ 3.90	Equaled Volume
	F90-150	≥ 99.70	≤ 0.2		
	F180-220	≥ 99.50	≤ 0.2		
	F230-400	≥ 99.50	≤ 0.25		
	F500-1200	≥ 99.0	≤ 0.25		

Brown Fused Aluminum Oxide Powder

Brown Fused Aluminum Oxide powders are the perfect material specifically manufactured to be used for general abrasive applications in bonded abrasive tools, and lapping and polishing processes, it is widely used for grinding ferrous materials, finishing tough and hard materials, filling up ceramic parts when the processing cost is important. It is offered in macro and micro powder form, in both P and FEPA grades.

Chemical Composition				
Grit Size	Al ₂ O ₃ mass % - min.	Fe ₂ O ₃ (Iron Oxide) mass % - max	CaO (Calcium Oxide) mass % -max	Titanium Oxide (TiO ₂) mass %- max
F12-F20	95.0	0.2	0.3	1.7
F24-F90	95.0	0.2	0.3	
F100-F120	95.0	0.2	0.4	
F150-F180	95.0	0.3	0.4	
F230-F280	95.0	0.4	0.5	
F320-F600	94.0	0.4	0.5	
F800- F1000	94.0	0.5	0.5	
F1200	94.0	0.5	0.7	

Green Silicon Carbide

Green Silicon Carbide is produced with petroleum coke, quartz sand and additive in furnace .

The grit and powder made of it is suitable working on hard alloy, brittle metals, non-ferrous metals such as copper, brass, aluminum, magnesium, non-metallic materials, gem, optical glass, ceramics, etc.

Application	Grade	Grit Size	Total SiC mass % - min.	Total SiO ₂ mass % - max.	Fe (Iron) mass % - max	C (Carbon) mass % - max
Abrasive	AG	F24-F100	99.0	0.3	0.25	0.2
		F120-F220	99.0	0.3	0.25	0.2
		F240-F400	98.5	0.3	0.25	0.2
		F500-F800	98.0	0.4	0.25	0.2
		F1000-F1500	98.0	0.4	0.25	0.2

Black Silicon Carbide

Black silicon carbide is produced with petroleum coke, quartz sand and additives .

The powders are the perfect material that specifically manufactured to be used for general abrasive applications in bonded abrasive tools, lapping and polishing processes. It is widely used for grinding non-ferrous materials, finishing tough and hard materials, filling up ceramic parts when the processing cost is important.

Application	Grade	Grit Size	SIC mass % - min.	Fe (Iron) mass % - max	C (Carbon) mass % - max	Magnetic admixture mass %- max
Abrasive	AG	F12-F20	98.0	0.25	0.25	0.13
		F24-F90	98.0	0.25	0.25	0.15
		F100-F120	98.0	0.25	0.3	0.15
		F150-F180	97.0	0.3	0.3	0.15
		F230-F280	97.0	0.3	0.3	0.15
		F320-F600	96.0	0.4	0.4	0.15
		F800-F1000	95.0	0.5	0.5	0.15
		F1200	94.0	0.5	0.5	0.15

Garnet

<http://www.shinelineabrasives.com>

The specific gravity of garnet is 3.96g/cm³. The main inner structure of garnet is crystallized iron and alumina. It is suitable for free lapping or being used for making organic bonded abrasive tools. It also has non-abrasive application.

SiO ₂	Al ₂ O ₃	FeO	Fe ₂ O ₃
35.0~42.0	20.0~28.0	25.0~32.0	5.0~10.0

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Shanghai Shinline Abrasives Co., Ltd

3424, Zhufeng Rd., Qingpu, Shanghai, China

Tel: 86-186 2157 3868/ 17613153127

E-mail: info@shinlineabrasives.com

<http://www.shinlineabrasives.com>