



List of standard grades

We are pleased to inform you that Qingdao Kropfmuehl Graphite Co., Ltd. has extended its product portfolio. Special grades are available on request. Below you will find a detailed overview.

Micronized natural graphite grades

Graphite grade:	Carbon content: (in % C)	Particle size:	Typical applications:
MGF 4 96	>96	d ₅₀ 3 – 5.5 µm	Powder Metallurgy, Fine Leads, Lubricants
MGF 4 995	>99.5		
MGF 4 999	>99.9		
MGF 6 96	>96	d ₅₀ 5 – 7 µm	
MGF 6 995A	>99.5		
MGF 7 99	>99	d ₅₀ 6 – 9 µm	
MGF 10 96Q	>96	d ₅₀ 8 – 11 µm	
MGF 10 995	>99.5		
MGF 18 995	>99.5	d ₅₀ 16 – 21 µm	
MGF 20 995C	>99.5	d ₅₀ 18 - 24 µm	
SFG 1	>90	d ₉₀ ≤ 30µm	Lubricants
SFG 2	>99	d ₅₀ 3.5 – 6.5 µm	
MGR 7 96	>96	d ₅₀ 6 – 9 µm	
MGR 9 96	>96	d ₅₀ 7.5 – 10.5 µm	
MGR 12 995	>99.5	d ₅₀ 9 – 14 µm	Carbon Brushes, Powder Metallurgy, Lubricants
MGR 17 95	>95	d ₅₀ 15 – 20 µm	
MGR 25 995	>99.5	d ₅₀ 20 – 30 µm	
MGR 30 99	>99	-325 mesh 75 – 85%	
MGR 35 99	>99	d ₅₀ 30 – 40 µm	
-395	>95	max. 15% > 325 mesh	
SFP 90 A	>90	max. 10% > 200 mesh	Friction
SC 20 OQKG	>99	d ₅₀ 18 – 24 µm	High Conductivity Additives, Electromagnetic Shielding
SC 250	>99	max. 20% < 80 mesh	

Remark:

- 1) Carbon range: in compliance with customer's demands from 85% up to 99.99%.
- 2) Particle size: the average size d₅₀ of "MGF" is available from 4 µm ~ 35 µm; d₅₀ of "MGR" is available from 10 µm ~ 45 µm.
- 3) Packaging: arranged to customer's needs, typically big bags or paper bags.
- 4) Raw material base: natural flake graphite, amorphous graphite, natural vein graphite (Sri Lanka).
- 5) MGR: round particles; MGF: flat particles
- 6) More special graphite series for different applications available, such as QSF series for carbon brush.
- 7) Our quality is equivalent to European standards.

Sieved natural graphite grades

Graphite grade:	Carbon content: (in % C)	Particle size:	Typical applications:	
SFP 80	>80	max. 15% > 71 µm	Foundry, Friction, Refractory	
SFP 85	>85			
SFP 90	>90			
SFP 95/194	>95	+100 mesh 10 – 30% +200 mesh 20 – 50% -200 mesh < 70%		
SFP 99	>99	max. 15% > 71 µm		
FNP 80	>80	max. 5% > 100 µm min. 60% < 71µm		
FNP 85	>85			
FLP 85 China	>85	max. 10% > 160 µm		
FLP 90T	>90			
FLP 90H	>90	+160 µm 5-15% +100 µm 30-50% +71 µm 20-40% -71 µm 10-30%		
FLP 94	>94	+160 µm < 15% -71 µm < 30%		
FLS	80 – 99.5	min. 20% > 100 µm		Carbon Brushes, Accumulators
FLN	87 – 98	min. 70% > 160 µm		Refractory, Crucibles, Friction Materials, Sealings
FLM 90E	>89	+212 µm 15-55% +150 µm 25-40% +75 µm 5-45% -75 µm ≤ 10%		
FLM 94	>94	+315 µm > 20% +160 µm > 70% +71 µm > 93%		
FLL 95	>95	min. 35% > 315 µm min. 85% > 160 µm min. 97% > 71 µm		
FT 88	>88	+35 mesh <5% +60 mesh <35% +120 mesh <75% +240 mesh <35% -240 mesh <10%		
FT 99	>99			
-3xx, -2xx, -1xx, +1xx, +150xx, +8xx, +5xx xx = C-Level	80 – 99.9	According to Chinese standard Minus-Grade: 85% below Plus-Grade: 75% above	Friction, Carbon Brush, Refractory, Sealing, Gasket	

Remark:

- 1) For screening, we use imported production equipment.
- 2) Carbon range: in compliance with customer's demands, carbon range of POWDER from 70% ~ 99.95%; carbon range of FLAKES from 87% ~ 99.95%.
- 3) Packaging: arranged to customer's needs, typically big bags or paper bags.
- 4) More special graphite series for different applications available.
- 5) We stand for homogeneous sieved materials.
- 6) Our quality is equivalent to European standards.

Amorphous graphite grades

Graphite grade:	Carbon content: (in % C)	Particle size:	Typical applications:
Am -260	>60	max. 20% > 200 mesh	Refractory, Carburizer, Pencil, Friction
Am -270	>70		
Am -280	>80		
Am -285	>85		
Am -375	>75	max. 20% > 325 mesh	
Am -380	>80		
Am -390	>90		
N375	>75	+5 mesh < 5% +35 mesh > 80% -35 mesh < 15%	

Remark:

- 1) Packaging: arranged to customer's needs, typically big bags or paper bags.
- 2) We can also supply micronized amorphous graphite according to customer's requirements.
- 3) Our quality is equivalent to European standards.

Expandable graphite grades

Graphite grade:	Carbon content: (in % C)	Particle size:	Expansion rate (in cm ³ / g)	Starting temperature (in °C)	Typical applications:
ES 350 F5	>98	min. 80% > 50 mesh	350 - 700	180 - 240	Flame retardant, EPS, PU foam, Graphite foil, Gasket, Conductivity
ES 250 F5	>98		250 - 500	180 - 240	
ES 200 F5L	>99		> 200	160 - 180	
ES 250 B5	>90		250 - 500	180 - 240	
ES 170-300A	>95		> 170	> 300	
ES 250 B8D	>90	min. 70% > 80 mesh	> 250	180 - 240	
ES 200 B8D	>90		> 200	-	
ES 100 C10	>92	min. 80% < 150 µm	100 - 200	180 - 240	
ES 20 C200	>92	min. 80% < 71 µm	> 20	180 - 240	
ES 70 H15	>70	max. 1% > 60 mesh	70 - 130	-	
ES 120 G	>80	max. 5% < 80 mesh	120 - 400	-	

Remark:

- 1) Packaging: arranged to customer's needs, typically big bags or paper bags.
- 2) We can provide expandable graphite with modified parameters according to customer's demands. That includes pH value, starting temperature, expansion rate and expansion strength.
- 3) Specialty expandable graphite available like Sulfur<200PPM, Fluorine<50PPM, Chlorine<50PPM.
- 4) Our quality is equivalent to European standards.

Synthetic graphite grades

Material:	Graphite grade:	Carbon content (in % C)	Sulfur content (in%)	Particle size	Typical applications
Micro synthetic graphite	Q811	>99	< 0.05	d ₅₀ 5 – 7 µm	Lubricant, Carbon Brush, Carburizer
	Q818	>99	< 0.05	d ₅₀ 3 – 5.5 µm	
	Q808	>99	< 0.05	d ₅₀ 18 – 25 µm	
	Q809	>99	< 0.05	min. 80% < 325 mesh	
	QS808Y	>99.5	< 0.05	d ₅₀ 16 – 21 µm	
	QS809Y	>99.5	< 0.05	d ₅₀ 23 – 27 µm	
	QS808	>99.9	< 0.03	d ₅₀ 16 – 21 µm	
	QS809	>99.9	< 0.03	d ₅₀ 23 – 27 µm	
Sieved synthetic graphite	Q812	>98	< 0.05	+20 mesh <1% +60 mesh >90% -60 mesh <10%	Friction, Carburizer, Refractory
	Q813	>99	< 0.05	+20 mesh <5% +40 mesh 25-45% +100 mesh 35-55% -100 mesh 5-20%	
	Q820	>99	< 0.05	+18 mesh <5% +70 mesh >85% -70 mesh <10%	
	Q821/1030	>99	< 0.05	+10 mesh NIL +20 mesh 35-55% +40 mesh 40-60% -40 mesh <5%	
	Q822	>99	< 0.05	+16 mesh <1% +30 mesh <5% +60 mesh 15-40% +120 mesh 20-40% +240 mesh 15-35% -240 mesh 5-25%	
	Q830	>99	< 0.05	+18 mesh <5% +35 mesh >85% -35 mesh <10%	
	Q841	>99	< 0.05	+18 mesh <1% +35 mesh <50% +60 mesh 40-90% +120 mesh <40% -120 mesh <10%	
Micro calcined pet coke	Q302	>99	< 0.5	min. 90% < 200 mesh	Carburizer, Friction
Sieved calcined pet coke	Q304	>97	< 3	+20 mesh <5% +35 mesh >80% -35 mesh <15%	
	Q856	>95	< 1.5	+7 mesh NIL +18 mesh >95% -18 mesh <5%	
	Q859	>98	< 3	+20 mesh <5% +40 mesh <35% +70 mesh <75% +100 mesh <30% -100 mesh <20%	
Graphitized pet coke	QGxxx	>98.5	< 0.05	5-10 mm > 90% 1-5 mm > 90%	Refractory, Carburizer
		>98	< 0.1	1-3 mm > 90% 0-1 mm > 90%	

Remark:

- 1) Packaging: arranged to customer's needs, typically big bags or paper bags.
- 2) Synthetic graphite & calcined pet coke are also available at bigger particle size like 1-5 mm a.s.o.
- 3) We can also supply other carbon products like: graphite electrode, carbon blocks/rods, isostatic graphite.

Popular commodities for trading

Graphite grade:	Carbon content: (in % C)	Particle size:	Typical applications:
-280	>80	min. 80% < 200 mesh	Powder Metallurgy, Fine Leads, Lubricants
-285	>85		
-290	>90		
-296	>96		
-185	>85	min. 80% < 100 mesh	Carbon Brushes, Powder Metallurgy, Lubricants
-190	>90		
-195	>95		
-199	>99		
+890	>90	min. 75% > 80 mesh	Carbon Brushes, Sealings, Conductive Coatings, Lubricants
+894	>94		
+899	>99		
+8997	>99.7		Foundry, Friction
+599	>99	min. 75% > 50 mesh	Carbon Brushes, Accumulators, Copper Casting
+5995	>99.5		

Remark:

- 1) Packaging: arranged to customer's needs, typically big bags or paper bags.
- 2) Besides above, we can also supply a wide range of other commodities with various particle size and carbon rage.
- 3) Our quality is equivalent to European standards.

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CERTIFICATE OF CONFORMITY QUALITY MANAGEMENT SYSTEM CERTIFICATION

NO. 10416Q20692R1S

This is to certify that the Quality Management System of

QINGDAO KROPFMUEHL GRAPHITE CO., LTD.

(Add.: Lijialou Village, Tonghe Town, Pingdu, Qingdao, Shandong Province, 266706, China
Unity Social Credit code: 91370283718043675N Postal Code: 266706)

is in conformity with:

GB/T 19001-2008 / ISO 9001:2008

This system is valid to:

*** RESEARCH AND DEVELOPMENT, PRODUCTION AND SERVICE OF
GRAPHITE ***

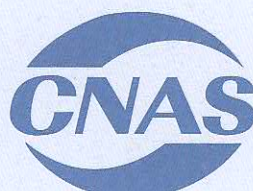
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Issue date :06-27-2016

Term of validity: 06-27-2016 TO 09-15-2018

Representative of the company (Director):

S. p. chun



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