

P
ENNEKAMP

MIDDLE EAST

PENNEKAMP
MIDDLE EAST L.L.C

WE KNOW THE REFRACTORY





WHO WE ARE?

About Our Company

PENNEKAMP MIDDLE EAST LLC

PENNEKAMP MIDDLE EAST was established in 2008 aiming to perform end- to-end trading, technical activities and professional services in Dubai, UAE one of the most famous trading hubs in the world.

As a Refractory full service solution supplier to tailor the best solution for our customers, we supply over 50 types of Refractory products. The range from Refractory Raw materials such as bauxite, DBM, FM, SIC, Tabular Alumina, White fused Magnesia, Alumina Spinel, BFA, WFA, Mullite, Alumina Cement to the bricks and flow control products such as Slide Gate, Nozzle, Purging Plug, Stopper, Shroud , Masses and etc.

Every year we handle over 100,000 metric Tons of products to our customers all over the world. The more closely we work with our customers, the greater difference we can make for them. Our experienced experts and strong technical team support, with their open mind, keep making innovation and improvements for our customers with new technology.

Saving more purchasing costs for customers is growing in our mind, Therefore we cut every unnecessary cost for our customers to help them make smarter economical choices.

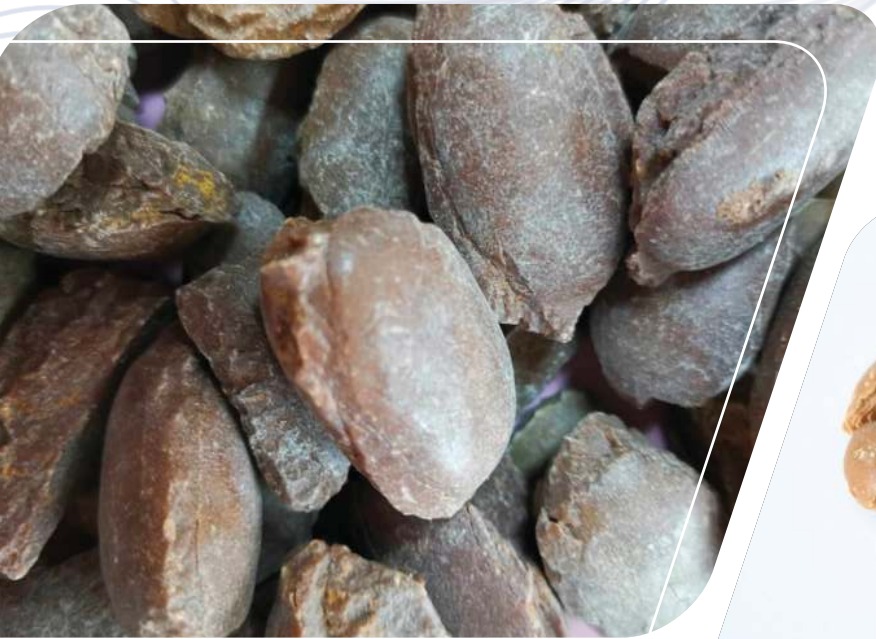
Customer-focused policy works as a driving force to keep pushing us to be more efficient in the Refractory industry. It helps us focus better to understand the concerns and work to be alert to new thinking and ideas that enable us to deliver better advice, service and solutions to our customers.

We are always looking forward to build strong bonds with our customers, to provide change, benefit and better opportunities for them.



ROTARY KILN BAUXITE

ITEM	RKB 75	RKB 80	RKB 85	RKB 86	RKB 87	RKB 88	RKB 90
Al ₂ O ₃ (%)≥	75	80	85	86	87	88	90
Fe ₂ O ₃ (%)≤	2.50	2.20	2.0	2.0	2.0	1.80	1.50
TiO ₂ (%)≤	4.5	4.0	4.0	4.0	4.0	4.0	4.0
K ₂ O+Na ₂ O(%)≤	0.50	0.50	0.40	0.40	0.40	0.40	0.40
CaO+MgO(%)≤	1.0	0.80	0.60	0.60	0.60	0.60	0.60
Bulk Density (g/cm ³)≥	2.75	2.95	3.10	3.15	3.25	3.25	3.35
SIZE	0-1mm, 1-3mm, 3-5mm, 5-8mm, according to customer's requirement						



DEAD BURNED MAGNESITE

ITEM	DBM88	DBM90	DBM92	DBM95	DBM97	DBM98
MgO(%)≥	88	90	92	95	97	98
LOi(%)≤	1.50	0.80	0.80	0.30	0.20	0.20
SiO ₂ (%)≤	6.0	4.5	4.0	2.2	0.7	0.5
Fe ₂ O ₃ (%)≤	2.5	1.5	1.2	1.0	0.65	0.55
Al ₂ O ₃ (%)≤	1.0	1.0	1.0	0.80	0.15	0.10
CaO(%)≤	3.0	2.5	2.5	1.8	1.5	1.0
Bulk Density (g/cm ³)≥	3.12	3.10	3.10	3.18	3.30	3.35
SIZE	0-15mm	3-15/30mm	0-15mm	0-40mm	0-25/30mm	0-25/30mm



FUSED MAGNESITE

ITEM	FM96	FM97	FM98
MgO(%) \geq	96	97	98
SiO ₂ (%) \leq	1.0	0.7	0.5
Fe ₂ O ₃ (%) \leq	1.0	0.7	0.5
Al ₂ O ₃ (%) \leq	0.2	0.2	0.2
CaO(%) \leq	2.0	1.5	1.0
LOi(%) \leq	0.2	0.2	0.2
Bulk Density (g/cm ³) \geq	3.40	3.45	3.50



WHITE FUSED MAGNESITE

ITEM	WFM 96.5	WFM 97	WFM 97.5	WFM 98
MgO(%) \geq	96.5	97	97.5	98
SiO ₂ (%) \leq	0.90	0.70	0.60	0.50
Fe ₂ O ₃ (%) \leq	0.90	0.70	0.60	0.55
Al ₂ O ₃ (%) \leq	0.20	0.20	0.20	0.20
CaO(%) \leq	1.80	1.50	1.30	1.0
LOi(%) \leq	0.25	0.20	0.20	0.20
Bulk Density (g/cm ³) \geq	3.42	3.47	3.50	3.50



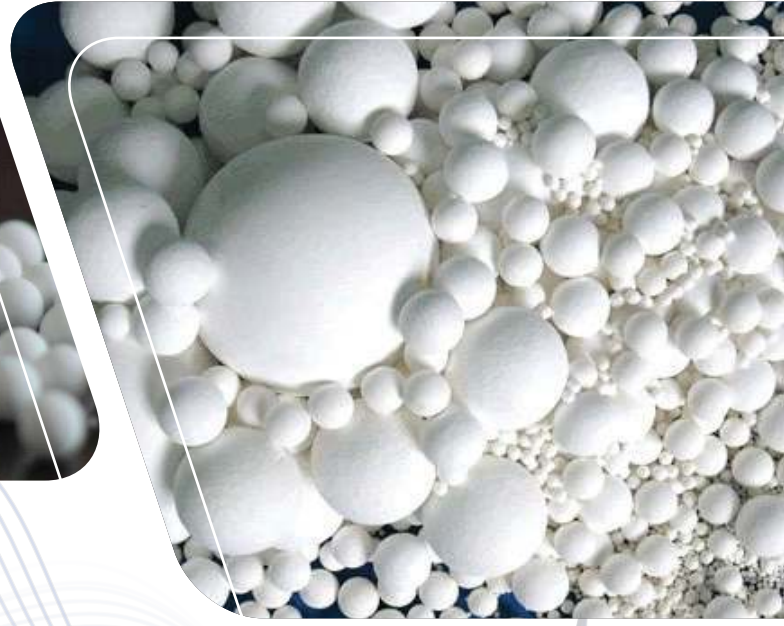
 **WHITE FUSED ALUMINA**

ITEM	WFA
$\text{Al}_2\text{O}_3(\%) \geq$	99.20
$\text{Na}_2\text{O}(\%) \leq$	0.30
$\text{Fe}_2\text{O}_3(\%) \leq$	0.10
$\text{SiO}_2(\%) \leq$	0.10
Moisture($\% \leq$)	0.50



BROWN FUSED ALUMINA

ITEM	BFA
$\text{Al}_2\text{O}_3(\%) \geq$	95
$\text{Fe}_2\text{O}_3(\%) \leq$	0.30
$\text{SiO}_2(\%) \leq$	1.00
$\text{TiO}_2(\%) \leq$	3.00
$\text{CaO} + \text{MgO}(\%) \leq$	0.85
Bulk Density (g/cm^3) \geq	3.85



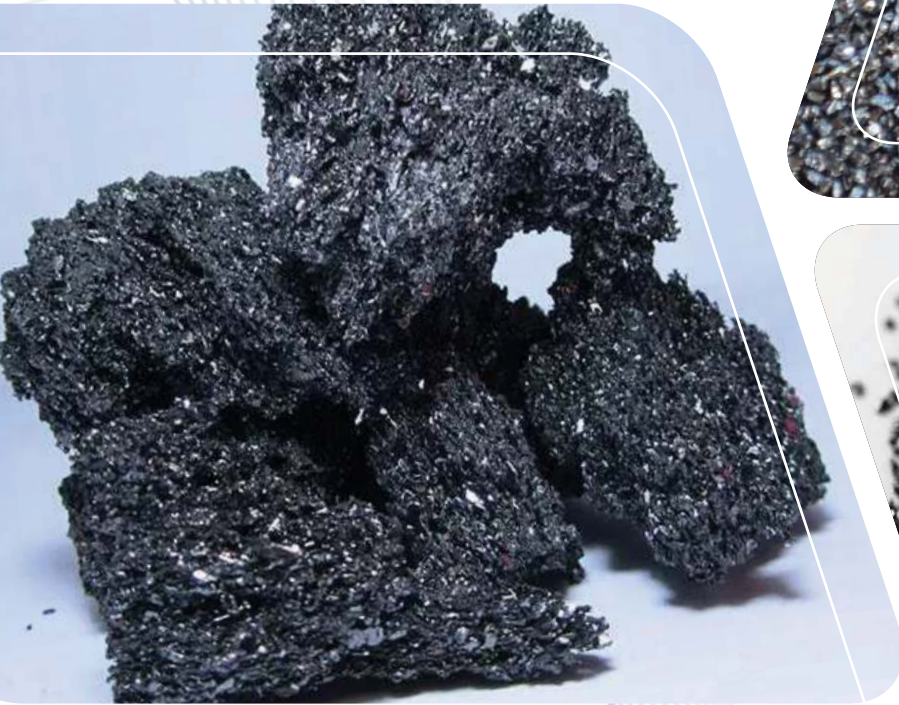
TABULAR ALUMINA

ITEM	SPEC.
$\text{Al}_2\text{O}_3(\%) \geq$	99.20
$\text{Na}_2\text{O}(\%) \leq$	0.35
$\text{SiO}_2(\%) \leq$	0.1
$\text{Fe}_2\text{O}_3(\%) \leq$	0.1
Bulk Density (g/cm^3) \geq	3.50
Moisture($\%$) \leq	0.50



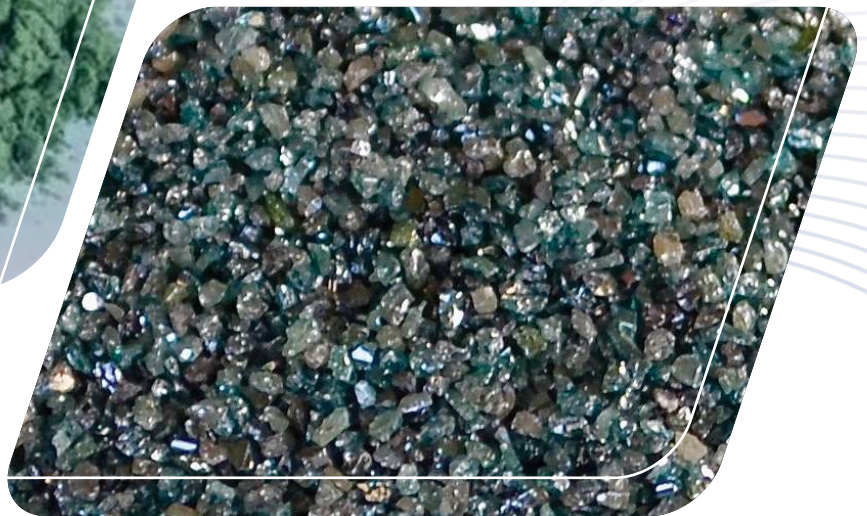
NATURAL GRAPHITE FLAKE

ITEM	NFG 895	NFG 898
Particle Size	80% +80mesh	80% -800mesh
Fixed Carbon(%)≥	95	98
Ash(%)≤	5	1.3
Moisture(%)≤	0.50	0.50
Volatility(%)≤	0.90	0.70



BLACK SIC

ITEM	SiC 98	SiC 95	SiC 85
SiC(%) \geq	98	95	85
F.C(%) \leq	0.50	0.50	5.0
Fe ₂ O ₃ (%) \leq	0.50	0.50	3.0
H ₂ O(%) \leq	0.30	0.30	0.30
SIZE -325mesh \geq	80%	80%	(-200 Mesh \geq) 80%



GREEN SIC

ITEM	ABRASIVES GRADE				REFRACTORY GRADE	
				MICRO POWDER	GROUP SIZE	FINE POWDER
	G.SIC 99	G.SIC 98.5	G.SIC 97.5	G.SIC 96	G.SIC 99 A	G.SIC 98 A
SiC(%)≥	99	98.5	97.5	96	99	98
F.C(%)≤	0.25	0.25	0.25	0.30	0.35	0.35
Fe ₂ O ₃ (%)≤	0.2	0.5	0.7	0.8	0.7	0.7



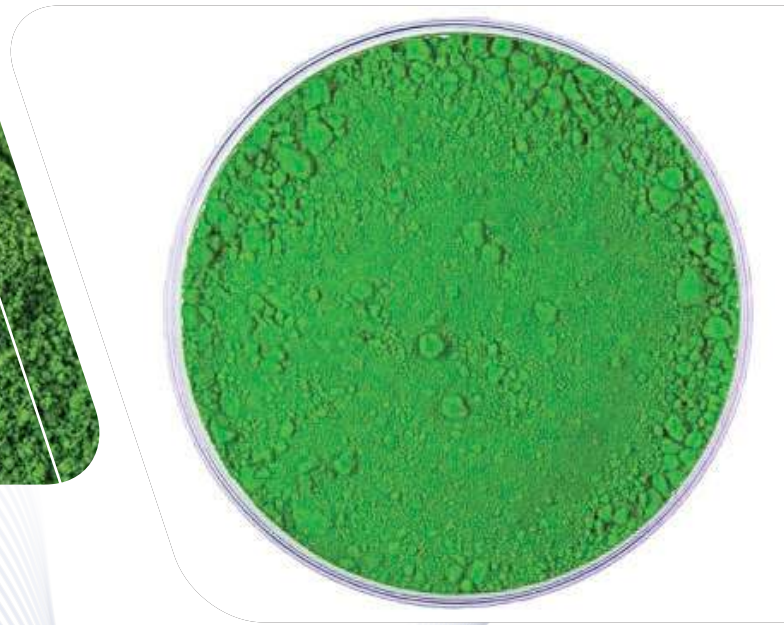
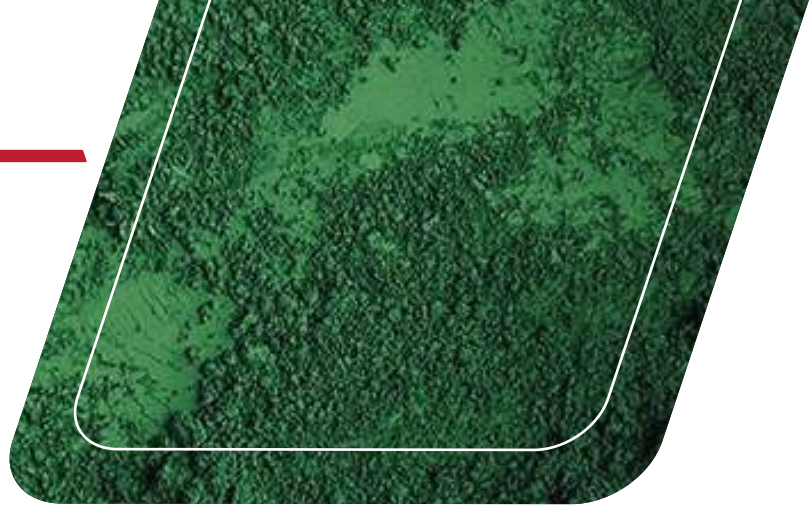
SINTERED MAGNESIA ALUMINA SPINEL

ITEM	S.SPINEL 90	S.SPINEL 75	S.SPINEL 65	S.SPINEL 60	S.SPINEL 50
Al ₂ O ₃ (%)	87-90	75-77	64-66	58-62	49-51
MgO(%)	8-11	22-24	32-34	28-32	48-50
CaO(%)	0.25	0.3	0.5	1.5	0.65
SiO ₂ (%)<	0.18	0.2	0.3	3	0.35
Fe ₂ O ₃ (%)<	0.17	0.2	0.3	2	0.4
Bulk Density (g/cm ³)≥	3.26	3.3	3.25	3.15	3.25
SIZE	0-30mm or required				



FUSED MAGNESIA ALUMINA SPINEL

ITEM	F.SPINEL 90	F.SPINEL 75	F.SPINEL 65
Al ₂ O ₃ (%)	88-91	70-75	64-68
MgO(%)	8-9	22-28	30-34
SiO ₂ (%)<	0.3	0.4	0.5
Fe ₂ O ₃ (%)<	0.4	0.4	0.5
Bulk Density (g/cm ³)≥	3.30	3.30	3.30



GREEN CHROME OXIDE

ITEM	TEST RESULT
Cr ₂ O ₃	99 % Min
Oil Absorption	0.2% Max
Fineness	0.2% Max
Water Soluble Matter	0.01% Max
MOISTURE	0.14




We specialize in Refractory Raw Materials and Finished Products in steel, Ceramic and Polishing industry.



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