



Zipro

Ceramic Material Solution Provider

www.ziprotech.com



ZIPRO GROUP

Ceramic Resources Vertical Integrator

ZIPRO TECHNOLOGY CORPORATION is a leading international advanced ceramic material solution provider, including zirconium material application, manufacturing, and supply. We offer a wide range of high quality products along with implementing vertical integration of zirconium related resources, to meet the various requirements application as high-speed 5G ceramic housing applications, zirconium 3D printing technology, and SOFC, etc. Through an effective manufacturing process, optimized design, and the unique properties of zirconium, we are able to achieve core competitiveness with our services and products.

Zipro is a subsidiary of VESTPRO INTERNATIONAL LTD., one of the largest shareholders of IMAGE RESOURCES (ASX listed: IMA) and one of the major shareholders of “THE WIM150 MINERAL SANDS PROJECT”, a zircon mineral development project in Australia.

Advanced Mineral Sands : One stop Service Provider of Global Ceramic Resources

Zipro's strategic partnership with Image Resources (ASX: IMA) allows for high-quality supply and distribution of zirconium resources. IMA, based in West Australia, is an emerging Mineral Sands producer focus on the development of its Boonanarring project in the North Perth Basin, and continues to expand its resources and reserves with high grade Zirconium sand amongst other heavy metals.



Business Main Groups

⇒ Zircon Sand/Powder Ceramic Grinding Media

Zircon sand, ilmenite, rutile, zirconia powders and grinding media.



⇒ Ceramic Industrial Products Ceramic Consumer Products

Customized industrial/consumer zircon related structural ceramic units.



⇒ Ceramic 3D Slurry

Powders for 3D ceramic printing slurry with complex ceramic products.



⇒ Zirconia R&D Development

Focus on bioscience material develop and analyze especially at dental and bone composite material.



Mineral Resource

Zircon sand

Chemical Analysis (wt% by XRF)

Composition	Typical (%)	Guaranteed (%)
ZrO ₂ +HfO ₂	65.1	65.0(Min)
Fe ₂ O ₃	0.07	0.10(Max.)
TiO ₂	0.19-0.25	0.25(Max.)
Al ₂ O ₃	0.7-1.4	
SiO ₂	33.0	
Total U+Th(ppm)	350	<500

Typical Particle Size Distribution

Aperture (µm)	Retained (wt%)	Cumulative (wt%)
300	0.05	0.05
212	1.71	1.76
150	26.88	28.64
106	57.84	86.48
75	13.27	99.75
<75	0.25	100

Typical Physical Properties

Physical Property	Typical
Bulk Density	2700kg/m ³
Specific Gravity	4.6

Packaging

Standard packaging is available in bulk shipments and 2 tonne bulk bags.

Mineral Resource

Leucoxene G02

Chemical Analysis (wt% by XRF)

Composition	Typical (%)	Guaranteed (%)
TiO ₂	87-90	87(min)
Al ₂ O ₃	2.0-2.4	
SiO ₂	13.-1.8	
CaO	0.03-0.05	
Cr ₂ O ₃	0.24-0.32	
Fe ₂ O ₃	3.4-4.2	
MgO	0.08-0.12	
MnO	0.02-0.04	
Nb ₂ O ₅	0.20-0.25	
P ₂ O ₅	0.05-0.1	
V ₂ O ₅	0.13-0.18	
ZrO ₂	1.2-1.7	
S	0.03-0.05	0.05(Max.)
Sn(ppm)	70-76	
Th(ppm)	200-300	
U(ppm)	18-24	
Total U+Th	220-330	
Moisture	<1.0	

Typical Particle Size Distribution

Aperture (µm)	Retained (wt%)	Passing (wt%)
300	0.15	99.7
250	0.51	99.2
212	2.28	96.9
180	8.07	88.8
150	14.2	74.6
125	28.4	46.2
106	25.8	20.4
90	11.2	8.43
75	5.32	3.10
53	2.79	0.31
<53	0.2	0.0

D50 135µm

Typical Physical Properties

Physical Property	Typical
Bulk Density	1726.5kg/m ³
Specific Gravity	3.50
Angle of Repose	30 ^o

Packaging

Standard packaging is available in bulk shipments and 2 tonne bulk bags.

Mineral Resource

SR Grade Ilmenite

Chemical Analysis (wt% by XRF)

Composition	Typical (%)	Guaranteed (%)
TiO ₂	57.0	56.0(Min.)
Al ₂ O ₃	1.2	1.3(Max.)
SiO ₂	1.2	1.3(Max.)
CaO	0.03	
Cr ₂ O ₃	0.06	
Fe ₂ O ₃	39.0	
MgO	0.20	
MnO	1.2	
P ₂ O ₅	0.3	
ZrO ₂	0.35	
V ₂ O ₅	0.18	
FeO	11.0	12.5(Max.)
U(ppm)	10-25	20(Max.)
Th(ppm)	50-250	220(Max.)
Total U+Th(ppm)		<500(Max.)

Typical Particle Size Distribution

Sieve(μm)/ Microns	Retained (wt%)	Cumulative (wt%)
300	0.8	0.8
250	2.1	2.9
212	6.7	9.6
180	14.2	23.8
150	26.8	50.6
125	25.8	76.4
106	14.3	90.7
75	8.5	99.2
-75	0.8	100

D50 typical 140-160μm

Typical Physical Properties

Physical Property	Typical
Bulk Density	2.7kg/m ³
Specific Gravity	4.6
Melting Point	2200 degrees Celsius

Sulphate Grade Ilmenite

Chemical Analysis (wt% by XRF)

Composition	Typical (%)	Guaranteed (%)
TiO ₂	54.0	53.5(Min.)
Al ₂ O ₃	1.3	1.4(Max.)
SiO ₂	1.3	1.3(Max.)
CaO	0.03	
Cr ₂ O ₃	0.06	
Fe ₂ O ₃	40.0	
MgO	0.20	
MnO	1.2	
P ₂ O ₅	0.02	
ZrO ₂	0.35	
V ₂ O ₅	0.18	
FeO	15.0	12.5(Min.)
U(ppm)	10-20	20(Max.)
Th(ppm)	100-150	160(Max.)
Total U+Th(ppm)		<180(Max.)

Typical Particle Size Distribution

Sieve(µm)/ Microns	Retained (wt%)	Cumulative (wt%)
300	0.8	0.8
250	2.1	2.9
212	6.7	9.6
180	14.2	23.8
150	26.8	50.6
125	25.8	76.4
106	14.3	90.7
75	8.5	99.2
-75	0.8	100

D50 typical 140-160µm

Typical Physical Properties

Physical Property	Typical
Bulk Density	2.7kg/m ³
Specific Gravity	4.6
Melting Point	2200 degrees Celsius

Zirconia Powders General Properties

Zirconium Oxychloride

Product Code	Chemical Formula	Analytical Value Typical Specifications					Form & Appearance	Remarks	Applications
		ZrO ₂ +HfO ₂ (Min%)	SiO ₂ (Max%)	Fe ₂ O ₃ (Max%)	TiO ₂ (Max%)	Na ₂ O (Max%)			
ZP-2-1	ZrOCl ₂ · 8H ₂ O	36.0	0.002	0.001	0.001	0.001	White Powder	High-purity	Textile, Leather, Rubber additive, Metal Surface Treating Agent, Coating Drying Agent, Ceramic Colored Glaze Catalyst, Water-proof Agent
ZP-2-2	ZrOCl ₂ · 8H ₂ O	35.0	0.004	0.002	0.002	0.003	White Powder	High-purity	

Zirconium Dioxide

Product Code	Chemical Formula	Analytical Value Typical Specifications									Form & Appearance	Applications
		ZrO ₂ +HfO ₂ (Min%)	SiO ₂ (Max%)	Fe ₂ O ₃ (Max%)	TiO ₂ (Max%)	Na ₂ O (Max%)	Average Particle Size D ₅₀ (μm)	B.E.T (m ² /g)	Ig.Loss (Max%)			
ZP-B1-G	ZrO ₂	99.9	0.01	0.005	0.001	0.001	--	1~4	0.2	White Powder	Ceramic catalyst, Polishing liquid, Synthetic diamond	
ZP-B2-M60	ZrO ₂	99.5	0.01	0.002	0.002	0.002	--	1~4	0.2		Ceramic catalyst, Polishing liquid, Synthetic diamond	
ZP-R1-2D0	ZrO ₂	99.9	0.001	0.001	0.002	0.002	2~3	1~4	0.5		Piezoelectric ceramic, Ceramic capacitor, Other Ceramic catalyst	
ZP-R2-3D0	ZrO ₂	99.5	0.001	0.001	0.003	0.005	3~6	2~6	0.5		Piezoelectric ceramic, Ceramic capacitor, Other Ceramic catalyst	
ZP-R3-6D0	ZrO ₂	99.5	0.01	0.002	0.005	0.005	6~8	2~6	0.5		Piezoelectric ceramic, Ceramic capacitor, Other Ceramic catalyst	
ZP-R4-G	ZrO ₂	99.5	0.020	0.005	0.005	0.005	--	2~6	0.5		Piezoelectric ceramic, Ceramic capacitor, Other Ceramic catalyst	
ZP-R5-M60	ZrO ₂	99.5	0.020	0.005	0.005	0.005	--	2~6	0.5		Piezoelectric ceramic, Ceramic capacitor, Other Ceramic catalyst	
ZP-R6-1D0	ZrO ₂	99.5/ 99.9	0.010	0.001	0.005	0.005	<1	3-7	0.5		Piezoelectric ceramic, Ceramic capacitor, Other Ceramic catalyst	
ZP-R7-1D0	ZrO ₂	99.5/ 99.9	0.010	0.001	0.005	0.005	<1	3-7	0.5		Piezoelectric ceramic, Ceramic capacitor, Other Ceramic catalyst	

Yttrium Stabilized Zirconia

Product Code	Chemical Formula	Analytical Value Typical Specifications										
		ZrO ₂ +HfO ₂ (Min%)	Y ₂ O ₃ (Max%)	Al ₂ O ₃ (Max%)	SiO ₂ (Max%)	Fe ₂ O ₃ (Max%)	TiO ₂ (Max%)	Na ₂ O (Max%)	Average Particle Size D ₅₀ (μm)	B.E.T (m ² /g)	Ig.Loss (Max%)	Form & Appearance
ZP-3Y4B-1D0	(Y ₂ O ₃) _x (ZrO ₂) _{1-x}	94.0	5.40±0.25	0.229	0.008	0.001	0.001	0.005	<1.0	8.200	2.35	White Powder
ZP-3Y6-0D5	(Y ₂ O ₃) _x (ZrO ₂) _{1-x}	94.0	5.30±0.25	0.231	0.013	0.002	0.001	0.005	<1.0	11-15	0.96	
ZP-3Y6B-1D0	(Y ₂ O ₃) _x (ZrO ₂) _{1-x}	94.0	5.35±0.25	0.235	0.007	0.001	0.001	0.005	<1.0	1	2.73	
ZP-3Y7-0D5	(Y ₂ O ₃) _x (ZrO ₂) _{1-x}	94.0	5.30±0.25	0.233	0.001	0.001	0.001	0.005	<1.0	6-9	0.38	
ZP-4Y-1D0	(Y ₂ O ₃) _x (ZrO ₂) _{1-x}	92.0	7.2±0.25	0.05	0.020	0.003	0.002	0.005	<1.0	6-9	1.0	
ZP-8Y-1D0	(Y ₂ O ₃) _x (ZrO ₂) _{1-x}	86.0	13.5±0.25	--	0.020	0.003	0.002	0.005	<1.0	--	1.0	

3Y : It means 3 mol% Y₂O₃ **B** : It means powder with binder.

3Y4B : Apply in big special-shaped structure parts **3Y6B** : Apply in small special-shaped structure parts

3Y-7 / 3YAZr-7 : Apply in small casting and injection mould parts

Application : Advanced Ceramic, Structural Ceramic Parts, Grinding Ball and Solid Fuel Cell.

Calcium Stabilized Zirconia

Product Code	Chemical Formula	Analytical Value Typical Specifications							
		ZrO ₂ +HfO ₂ (Min%)	CaO (Max%)	Al ₂ O ₃ (Max%)	SiO ₂ (Max%)	Fe ₂ O ₃ (Max%)	TiO ₂ (Max%)	MgO (Max%)	Granularity
ZSZCS	CaOZrO ₂	95.0	3.5-4.5	0.35	0.3	0.08	0.02	--	30、40、 100、200、 325(mesh)
ZSZC	CaOZrO ₂	95.0	3.0-3.6	0.35	0.3	0.08	0.02	--	
ZSZB	CaOZrO ₂	95.0	4	0.3	0.20	0.10	0.20	0.05	

Zirconium Silicate

Grey white powder with good chemical stability.

Product Code	Chemical Formula	Analytical Value Typical Specifications						Applications
		ZrO ₂ +HfO ₂ (Min%)	Fe ₂ O ₃ (Max%)	TiO ₂ (Max%)	Whiteness	Average Particle Size D ₅₀ (μm)	Form & Appearance	
ZP-S1-1D0	ZrSiO ₄	65	0.1	0.15	95	1.031	Grey white Powder	Glass additive, sanitary ware, tiles and other ceramic glaze, micro granule, Brake Linings, Refraction
ZP-S2-1D0	ZrSiO ₄	63.5	0.15	0.2	94	1.034		
ZP-S3-1D0	ZrSiO ₄	60	0.25	0.4	91	1.034		

Fused Zirconia

Light yellow powder with good chemical stability.

Product Code	Chemical Formula	Analytical Value Typical Specifications						Applications	
		ZrO ₂ +HfO ₂ (Min%)	SiO ₂ (Max%)	Fe ₂ O ₃ (Max%)	TiO ₂ (Max%)	Al ₂ O ₃ (Max%)	Average Particle Size D ₅₀ (μm)		Form & Appearance
ZP-GF9-1D0	ZrO ₂	98.50	0.40	0.04	0.25	0.35	1	Light yellow Powder	Ceramic pigment, Glass additive, Refractory material, Nuclear power, Brake Linings, Refraction
ZP-GF9-2D5	ZrO ₂	98.50	0.40	0.04	0.25	0.4	2.5~3.5		
ZP-GF3-5D0	ZrO ₂	98.50	0.40	0.04	0.25	0.35	5~6		

Zirconium Sponge

Silver grey granular metal and of luster, melting point 1852°C, boiling point 4377°C, density 6.49. Zirconium can absorb hydrogen, nitrogen and oxygen easily. The chemical stability of zirconium is more stable in the air.

Product Code	Chemical Formula	Chemical Composition(%)									
		Zr+Hf	Hf	Ni	Cr	Al	Mg	Mn	Pb	Ti	
HZr-1	Zr	>99.4	<3.0	<0.010	<0.020	<0.03	<0.06	<0.010	<0.005	<0.005	
			V	Cl	Si	O	C	N	H	Fe	
			<0.005	<0.13	<0.010	<0.1	<0.03	<0.010	<0.0125	<0.1	
HZr-01	Zr	>99.4	Zr	Hf	Co	Sn	Ni	Cr	Al	Mg	Mn
			<0.008	<0.001	<0.005	<0.007	<0.010	<0.0075	<0.015	<0.0035	
			Pb	Ti	V	Cd	Fe	Cl	Si	B	
			<0.005	<0.005	<0.005	<0.00005	<0.08	<0.030	<0.007	<0.00005	
			H	Cu	W	Mo	O	C	N		
<0.0025	<0.003	<0.005	<0.005	<0.070	<0.010	<0.005					

Applications : Applied in aerospace, metallurgy, alloy additive, anti-corrosion equipment, getter and other industry.

Zirconia Grinding Media

Advantage of zirconia grinding media

- Long using life : lower total cost compared with other grinding media.
- Good stability : Corrosion resistance, can be used in acidic and alkaline material.
- Low Abrasion : prevent material from contamination, guarantee its purity and quality.
- High grinding efficiency : it has the highest efficiency and lowest abrasion in the whole grinding media market.

Y-TZP Material Properties

Physical Property	Unit	Typical Value
Hardness(HV)	HV	1200~1300
Thermal Expansion Coefficient	$10^{-6}/K$	9.6
Modulus of Elasticity	GPa	205
Fracture Toughness	$MPa \cdot m^{1/2}$	8-10
Density	g/cm^3	>5.95
Color		White

Chemical Composition	Unit	Typical Value
ZrO ₂	wt%	>94%
Y ₂ O ₃	wt%	5.3±0.25%
Al ₂ O ₃	wt%	0.25
Fe ₂ O ₃	wt%	< 0.002
Na ₂ O	wt%	< 0.005

Size / Model		Size Range(mm)	Roundness
Φ 0.3-0.4	ZP-GM-Φ03	±0.03	>90%
Φ 0.5	ZP-GM-Φ05	±0.07	
Φ 0.8	ZP-GM-Φ08	±0.07	>95%
Φ 1.0	ZP-GM-Φ1	±0.10	
Φ 2.0	ZP-GM-Φ2	±0.15	
Φ 5.0	ZP-GM-Φ5	±0.2	
Φ 10.0	ZP-GM-Φ10	±0.2	
Φ 20.0	ZP-GM-Φ20	±0.5	

Alumina Powders General Properties

Spherical Alumina

Product Code	Chemical Formula	Analytical Value Typical Specifications										Form & Appearance
		Al ₂ O ₃ (Min%)	Na ⁺ (ppm)	Cl ⁻ (ppm)	pH	Electrical Conductivity (uS/cm)	Moisture Content (uS/cm)	Average Particle Size D10 (μm)	Average Particle Size D50 (μm)	Average Particle Size D90 (μm)	Average Particle Size D100 (μm)	
ZNA1450W	Al ₂ O ₃	99.3	1.74	2.32	6.44	6.10	0.05	28.85	47.58	73.48	—	White Powder
ZNA1300W	Al ₂ O ₃	99.3	1.94	2.17	6.84	6.10	0.05	7.07	29.32	64.13	—	
ZNA1100W	Al ₂ O ₃	99.9	5.0	1.1	7.4	7.3	—	4.8	9.8	21.5	52.5	
ZNA1050W	Al ₂ O ₃	99.9	5.0	1.2	7.2	5.3	—	2.2	6.5	14.4	28.7	
ZNA1020W	Al ₂ O ₃	99.9	3.3	1.4	7.2	5.6	—	1.06	2.83	5.52	8.40	

Application : MLCC, CCL, Thermal interface material, Ceramics, Abrasive grain, Spraying material.

Titanium Powders General Properties

Titanium Dioxide

Product Code	Chemical Formula	Analytical Value Typical Specifications										Ig.Loss (%)
		TiO ₂ (Min%)	Fe (%)	S (%)	SiO ₂ (%)	P ₂ O ₅ (%)	Al ₂ O ₃ (%)	Ca 、 Mg (%)	K 、 Na (%)	Average Particle Size D50 (μm)	Density (g/cm ³)	
ZNTP-209	TiO ₂	99.0	≤0.010	≤0.03	≤0.10	≤0.10	—	≤0.15	≤0.20	0.5-1	≤3.9	≤0.5

Application : MLCC, CCL, Thermal interface material, Ceramics, Abrasive grain, Spraying material.

Other Powders General Properties

Spherical Silica

Product Code	Chemical Formula	Analytical Value Typical Specifications										
		SiO ₂ (Min%)	Fe ₂ O ₃ (Max%)	Na ⁺ (ppm)	Cl ⁻ (ppm)	pH	Electrical Conductivity (uS/cm)	Moisture Content (uS/cm)	Specific Surface Area	Average Particle Size D ₅₀ (μm)	Average Particle Size D ₁₀₀ (μm)	Form & Appearance
ZNQ1035I	SiO ₂	99.85	0.06	1.1	1.0	5.1	2.2	0.05	2.4	3.67	9.98	White Powder
ZNA1015I	SiO ₂	99.85	0.06	1.2	1.3	5.2	10.5	0.05	12.5	1.75	6.70	

Note : The spherical silica is produced by silica being belted in very high temperature flame. It has characters of high purity, excellent sphericity, low thermal stress etc.

Gallium Trioxide

Product Code	Chemical Formula	Analytical Value Typical Specifications									
		Ga ₂ O ₃ (%)	Na (ppm)	Ca (ppm)	Mn (ppm)	Co (ppm)	Cu (ppm)	In (ppm)	Pb (ppm)	Al (ppm)	S (ppm)
ZGA-1	Ga ₂ O ₃	99.999	1.1	0.44	<0.05	<0.01	0.05	<0.01	<0.05	0.52	0.63
			Ti (ppm)	Zr (ppm)	Cd (ppm)	Mg (ppm)	Cr (ppm)	Fe (ppm)	Ni (ppm)	Zn (ppm)	Sn (ppm)
			<0.005	<0.05	<0.1	0.11	0.67	<0.05	0.37	<0.1	<0.5
			Bi (ppm)	Si (ppm)	Cl (ppm)	V (ppm)	As (ppm)	Mo (ppm)			
			<0.01	2.1	4.5	<0.01	<0.2	0.05			

Average Particle Size D₅₀ (μm) : 4+/-1um

Lanthanum oxide

Product Code	Chemical Formula	La ₂ O ₃ (%)	Impurity Content											
			Rare Earth Content											
			CeO ₂ (%)	Pr ₆ O ₁₁ (%)	Nd ₂ O ₃ (%)	Sm ₂ O ₃ (%)	Eu ₂ O ₃ (%)	Gd ₂ O ₃ (%)	Tb ₄ O ₇ (%)	Dy ₂ O ₃ (%)	Ho ₂ O ₃ (%)			
ZLA-S04	La ₂ O ₃	99.999	≅0.0001	≅0.0001	≅0.0001	0.00015	---	---	---	---	---			
			Er ₂ O ₃ (%)	Tm ₂ O ₃ (%)	Yb ₂ O ₃ (%)	Lu ₂ O ₃ (%)	Y ₂ O ₃ (%)							
			---	---	---	---	0.00026							
			Non-Rare Earth Content											
			Fe ₂ O ₃ (%)	SiO ₂ (%)	CaO (%)	Cl ⁻ (%)								
			≅0.0005	≅0.005	≅0.005	≅0.01								

Average Particle Size D₅₀ (μm) : 1-2um

Ig.Loss ≅ 2.0

Other Powders General Properties

Lanthanum oxide

Product Code	Chemical Formula	La ₂ O ₃ (%)	Impurity Content								
			Rare Earth Content						Non-Rare Earth Content		
			CeO ₂ (%)	Pr ₆ O ₁₁ (%)	Nd ₂ O ₃ (%)	Sm ₂ O ₃ (%)	Eu ₂ O ₃ (%)	Gd ₂ O ₃ (%)	Tb ₄ O ₇ (%)	Dy ₂ O ₃ (%)	Ho ₂ O ₃ (%)
ZLA-C06	La ₂ O ₃	99.999	≤0.0002	≤0.0001	≤0.0001	≤0.0001	---	---	---	---	---
			Er ₂ O ₃ (%)	Tm ₂ O ₃ (%)	Yb ₂ O ₃ (%)	Lu ₂ O ₃ (%)	Y ₂ O ₃ (%)				
			---	---	---	---	0.00026				
			Non-Rare Earth Content								
			Fe ₂ O ₃ (%)	SiO ₂ (%)	CaO (%)	Cl ⁻ (%)					
Average Particle Size D ₅₀ (μm) : 10-15μm											
I _g .Loss ≤ 2.0											

Light Magnesium oxide

Product Code	Chemical Formula	Analytical Value Typical Specifications										
		MgO (Min%)	CaO (%)	HCl insoluble (SiO ₂)%	Fe ₂ O ₃ (%)	Sulfate (SiO ₃)%	Screening Analysis (325 mesh)	Screening Analysis (220 mesh)	Loss on ignition (%)	Bulk Density (g/ml)	Average Particle Size D ₅₀ (μm)	Form & Appearance
ZMS-P90	MgO	90	≤2.0	≤1.6	≤1.0	---	---	≥95%	≤3.0	---	---	White Powder
ZMS-P97	MgO	96	≤1.5	≤0.5	≤0.10	≤0.5	≥99%	---	≤3.0	0.35-0.45	4-8	
ZMS-XQ	MgO	98	≤1.0	≤0.15	≤0.05	≤0.2	≥99%	---	≤3.5	0.20-0.40	2-5	
Product Code	Chemical Formula	MgO (Min%)	CaO (%)	HCl insoluble (SiO ₂)	Fe ₂ O ₃ (%)	Sulfate (SiO ₄)%	Chloride (Cl) %	Screening Analysis (150 mesh)	Loss on ignition (%)	Bulk Density (g/ml)	Average Particle Size D ₅₀ (μm)	Specific Surface Area (BET)
ZMS-150	MgO	97	≤0.5	≤0.1	≤0.05	≤1.0	≤0.5	≤0.05	≤10.5	0.35-0.45	3-5	130~160m ² /g

Key Properties : Good Refractoriness, Corrosion Resistance e.g. Basic Steelmaking Slags, Sodium Hydroxide, Fe, Co, Ni, High Thermal Conductivity, Low Electrical Conductivity, Transparency to Infrared.

Applications : Refractories, Crucibles, Cements, Heating Elements, Thermocouple Tubes, Brake Linings, Plasma Display

- * Above ZMS-P97 and ZMS-XQ are low-content-SiO₂ with make very low noise brake pads.
- * ZMS-150 is high activity magnesium oxide grade, it is for paints, flame retardant fillers and reinforcing agents fillers, paper and plastics and rubber, cosmetics and auxiliary materials of various electronic materials.



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