

ARABIAN ZINC

ZINC OXIDE - PRODUCT DATA SHEET

PARAMETER	UNIT	Major Grades				ANALYSIS METHOD
		99.9 %	White Seal	Technical	Animal Feed	
Zinc Oxide Assay (dry basis) - min.	%	99.9	99.7	99.5	90 / 93	Titration - EDTA
Zinc (Zn) - min.	%	80.2	80.1	79.95	72 / 75	Drying Oven
Moisture - max.	%	0.05	0.05	0.05	0.5	
Lead (Pb) - max.	%	0.001 / 0.003	0.03 / 0.015	0.05	0.06	0.2
Iron (Fe) - max.	%	0.001	0.005		0.5 / 0.4	AAS
Cadmium (Cd) - max.	%	0.0005	0.001		0.005 / 0.004	
Insoluble matters in dil. HCl - max.	%	0.01	0.03	0.05	-	Chemical Method
Loss on Ignition @ 850 °C - max.	%	-	0.2		-	Gravimetric Method
Sieve Residue On:						
325 Mesh (45 µ) - max.	%	0.01	0.1			ASTM D185; Wet sieving
80 Mesh (180 µ) - max.			Nil	5	10	
Surface Area (BET)	m ² /gm		4 - 6			BET; N ₂ adsorption
Bulk Density (tapped)	gm/cc		0.6 - 0.8		1 - 2	-
Total Sulphur - max.	%		Nil			-
Specific Gravity	-		5.5 - 5.6			ASTM D153, ISO 787/10
Color & Appearance	-		White Powder		Brown / Grey	Visual

Above are general specifications.
Any other grades/specifications could be evaluated and supplied based on customer requirements.

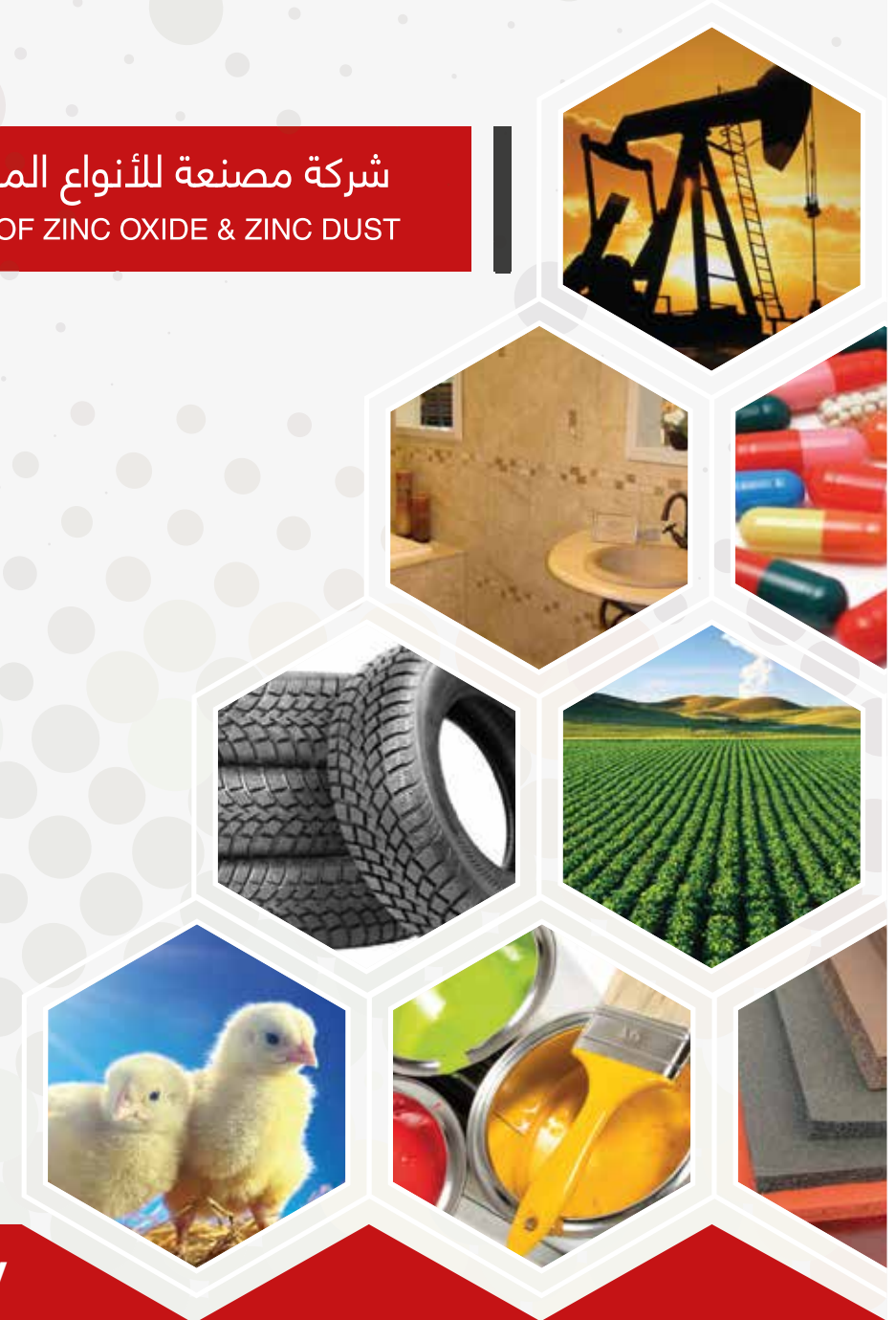
PACKAGING

- 1) 25 Kg Polypropylene Bags with Polyethylene Liner.
- 2) 500 / 1000 Kg Polypropylene Bulk Bags.



المصنع العربي لأكسيد الزنك
Arabian Zinc Oxide Factory
شركة الكيماويات الوسيطة المحدودة
Intermediate Chemicals Co. Ltd.

شركة مصنعة للأنواع المختلفة من غبار الزنك وأكسيد الزنك
MANUFACTURE OF VARIOUS GRADES OF ZINC OXIDE & ZINC DUST



Arabian Zinc Oxide Factory

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ARABIAN ZINC



ZINC OXIDE

Arabian Zinc manufacture various grades of Zinc Oxides by the well-known French Process which produce consistent high quality Zinc Oxide possessing high purity, brightness, refractive index as well as fine particle size. Our two factories and allied processing facilities in same premise help to produce various grades as per customer needs & also support in our contingency plan.



COMPANY INTRODUCTION

Al-Suwaidi Holding Company, the parent company of Intermediate Chemicals Co. Ltd. (ICC), is a Fortune 100 among Saudi companies in KSA.

The Al-Suwaidi companies' vision is to bring self-sufficiency in materials critical to the requirements of the industries in the Kingdom and the wider region of the Middle East.

In order to achieve this vision, ICC & Arabian Zinc were established in Jubail Industrial City to explore such requirements by bringing in new technologies. The production facility for one of such products, Zinc Oxide, came into existence in 1998, in the region catering to the growing markets in the segments of Animal Feed, Ceramics, Chemicals, Micronutrients, Paint, Pharmaceuticals, Plastics, Rubber among others.

Another milestone was achieved in 2014 with the establishment of a world-class manufacturing facility to produce Zinc Dust by the distillation process. This state-of-art production unit, too, is the first of its kind in the region.

ICC facility is equipped with complete laboratory for quality control and developments as well as adoption of an ISO Integrated Management System reflects our customer-centric focus. ICC stresses commitment towards the environment, health & safety of our people and society at large.

ICC is regularly evaluated and rated by the "ECOVADIS" system, in accordance with our commitment to the global need for sustainable business operations.

ICC welcome you to explore and benefit from the opportunities presented by Arabian Zinc through its combined production capacity in excess of 25,000 MTPA and its customized and consistence quality products and services.

APPLICATIONS

Polymers:	Acid neutralizer, anti UV agent, etc
Rubber & Tyre:	Activator in vulcanization
Animal Feed:	Micronutrient
Micronutrient Fertilizer:	Controlled release of Zinc Sulphate to the soil
Pharmaceuticals:	Anti UV, Anti Fungal, Anti bacteria
Paint:	Anti fouling, Anti Fungal, Anti UV, Anti corrosion agents
Ceramics:	In fritz and Glaze production
Catalyst:	In sulphur removal process
Oil Drilling:	Hydrogen sulphide scavenger



ARABIAN ZINC

ZINC DUST – PRODUCT DATA SHEET

PARAMETERS	UNIT	Major Grades				ANALYSIS METHOD
		AZD35	AZD46	AZD57	AZD69	
Average Particle Size (Dv50)	µm	3 - 5	4 - 6	5 - 7	6 - 9	Laser Diffraction Technique, ISO 13320
Metallic Zinc - min.	%	95	95	95	95	ASTM D521, Part 2; Titration
Zinc Oxide (ZnO) - max.	%	5	5	5	5	ASTM D521; Calculation
Total Zinc - min	%			99		ISO 3549, Part 6
Lead (Pb) - max.	%			0.01		
Iron (Fe) - max.	%			0.02		ASTM D521, ISO3549; AAS
Cadmium (Cd) - max.	%			0.01		
Sieve Residue On:						
200 Mesh (75 µ) - max.	%	Nil	Nil	Nil	Nil	ASTM D185, ISO 3549; Vacuum Sieve
325 Mesh (45 µ) - max.	%	0.01	0.02	0.5	0.5	
Oil Absorption	gm/100 gm		5 - 7			ASTM D281, ISO 787/5; Spatula Rubout
Moisture - max.	%		0.05			ASTM D280
Chloride (Cl) - max.	%		0.01			ASTM D521
Specific Gravity	-		7.0 - 7.2			ASTM D153, ISO 787/10
Color & Appearance	-		Grey Powder			Visual
Shape	-		Spherical			SEM

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PACKAGING

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ZINC DUST

Zinc Dust from Arabian Zinc is a pure metal powder, grey in color manufactured by the distillation process. The greatest advantages of ICC zinc dust shall be best described as below

- ◆ Spherical shapes.
- ◆ Greater homogeneity and Uniform fine particles enable improved yields.
- ◆ Controlled particle size distribution
- ◆ Imparts improved dispersion
- ◆ Superior performance on its application.
- ◆ Proven anti-corrosive properties in zinc rich formulations

APPLICATIONS

One of the major application areas of zinc dust is in zinc-rich paints used to protect steel from corrosion. Zinc-rich paint is an essential component of most heavy-duty coatings, as used in the protection of major structures such as oil rigs, steel bridges, petro-chemical and power industries. Other such protective coatings applications include automotive, sea containers, marine vessels, and equipment.

Major End Applications:

- ◆ Zinc Rich Primers / Paints as anticorrosion agent
- ◆ Lubricants
- ◆ Metallurgy: In the purification of precious metal production
- ◆ Chemicals

