

ARABIAN ZINC

ZINC DUST – AZD 46

TECHNICAL DATA REPORT

Intermediate Chemicals Co Ltd

(Arabian Zinc Oxide Factory)

Jubail Industrial City - Kingdom of Saudi Arabia

Subsidiary of M. S. Al-Suwaidi Holding Co Ltd



Intermediate Chemicals Company Ltd.
(Arabian Zinc Oxide Factory)
Al Jubail – KSA

Technical Data Sheet

Zinc Dust - AZD 46

Parameters	Parameters	Test Methods
APPEARANCE	Grey Powder	Visual
SHAPE	Perfect Spherical	SEM technique
AVERAGE PARTICALE SIZE – as Dv 50	4 to 6 micron	Laser Diffraction technique
TOTAL ZINC	98% min.	ISO 3549-part 6
METALLIC ZINC	95% min.	ISO 3549-part 7
LEAD (Pb)	0.01% max.	AAS
IRON (Fe)	0.02% max.	AAS
CADMIUM (Cd)	0.01% max.	AAS
ZINC OXIDE (ZnO)	5% max.	Calculation
SIEVE RESIDUE ON-325 MESH (45 µ)	0.02% max.	ISO 3549/4
OIL ABSORPTION	5.0 - 7.0 gm/100gm	ISO 787/5
MOISTURE	0.05% max.	ASTM D280-01
SPECIFIC GRAVITY	7.0 – 7.2	ISO 787/10

*** Above specifications are as per **ASTM D520-00** Type-II.
Type-I can also be offered based on customer's requirement.

Applications:

Anti-corrosion paints, Plating, chemical processes, Hydrometallurgy

Packing:

- 25 kg polypropylene bags with inner liner
- 500 kg polypropylene FIBC
- In customer provided metal / plastic drums or pails.

Disclaimer:

"Intermediate Chemicals Co. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness for a particular purpose. Final determination of suitability of this material is the sole responsibility of the user. Intermediate Chemicals Co. Ltd assumes no liability for reliance upon this information."



TYPICAL ANALYSIS

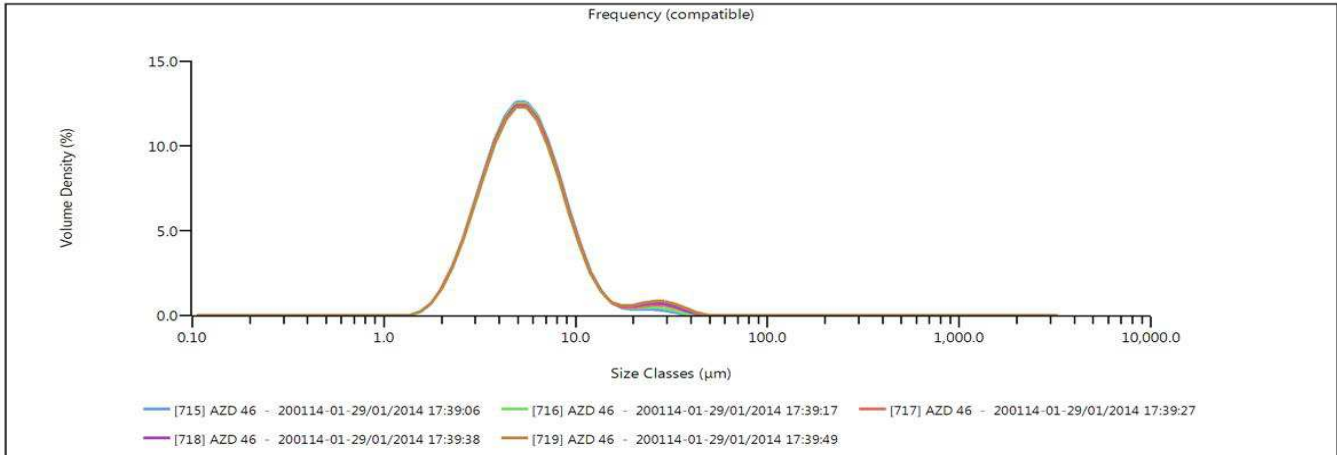
Parameters	Typical results for AZD 46 sample	General specification
Total Zinc (%)	99.3%	98% min.
Metal Zinc (%)	96.5%	95% min.
Zinc oxide (%)	3.5%	5% max.
Particle Size - Dv 50 (Micron)	5.26 μ	4 - 6 μ
Lead as Pb (ppm)	0.001%	0.010% max.
Mesh 325 - % Residue	0.01%	0.02% max.
Oil Absorption	5.3	5 - 7
Specific Gravity	7.0	7.0 – 7.2
Moisture	0.01%	0.05% max.

Particle size distribution

Intermediate Chemicals Co. Ltd - PSA Result overlay



Created by: ICC-QC
Last edited: 28/01/2014 15:36:38



Record Number	Sample Name	Dx 10 (µm)	Dx 30 (µm)	Dx 50 (µm)	Dx 70 (µm)	Dx 90 (µm)	Dx 95 (µm)	Result Below 10 µm (%)
715	AZD 46 - 200114-01	2.88	4.08	5.23	6.72	9.64	11.6	91.33
716	AZD 46 - 200114-01	2.88	4.08	5.24	6.74	9.75	11.9	90.86
717	AZD 46 - 200114-01	2.88	4.09	5.26	6.79	9.91	12.4	90.24
718	AZD 46 - 200114-01	2.88	4.09	5.27	6.82	10.1	12.9	89.74
719	AZD 46 - 200114-01	2.88	4.10	5.29	6.87	10.3	13.9	89.17
Mean		2.88	4.09	5.26	6.79	9.94	12.5	90.27
1xStd Dev		0.00338	0.00954	0.0241	0.0602	0.272	0.897	0.86
1xRSD (%)		0.118	0.233	0.458	0.887	2.73	7.16	0.95

Result

Concentration 0.0035 % Uniformity 0.429 Specific Surface Area 180.4 m ² /kg D [3,2] 4.75 µm D [4,3] 5.98 µm	Span 1.291 Dv 10 2.88 µm Dv 50 5.23 µm Dv 90 9.64 µm Volume Below 10 µm 91.33 %
--	---

