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

Technical Data Sheet

Zinc Dust - AZD35 Type-II

Parameters	Parameters	Test Methods
APPEARANCE	Grey Powder	Visual
SHAPE	Perfect Spherical	SEM technique
AVERAGE PARTICALE SIZE – as Dv 50	3 to 5 micron	Laser Diffraction technique
TOTAL ZINC	98% min.	ISO 3549-part 6
METALLIC ZINC	95% min.	ASTM D521-02
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)	0.01% 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 PE bags
- 500 / 1000 Kg Polypropylene FIBC
- In customer provided metal / plastic drums or pails.

Disclaimer:

"Intermediate Chemicals Co. Ltd. (Arabian Zinc Oxide Factory) 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."

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TYPICAL ANALYSIS

Parameters	Typical Results for AZD 35 sample Lot # 110219-24	General specification
Total Zinc (%)	99.0%	98% min.
Metal Zinc (%)	95.2%	95% min.
Zinc oxide (%)	4.8%	5% max.
Particle Size - Dv 50 (Micron)	4.2 μ	3 - 5 μ
Lead as Pb (%)	0.005%	0.01% max.
Iron as Fe (%)	0.001%	0.02% max.
Mesh 325 - % Residue	0.01%	0.01% max.
Oil Absorption (%)	5.6%	5 - 7%
Specific Gravity	7.02	7.0 - 7.2
Moisture (%)	0.02%	0.05% max.

Month Of Production: Feb-2019

Month Of Expiry: Aug-2019

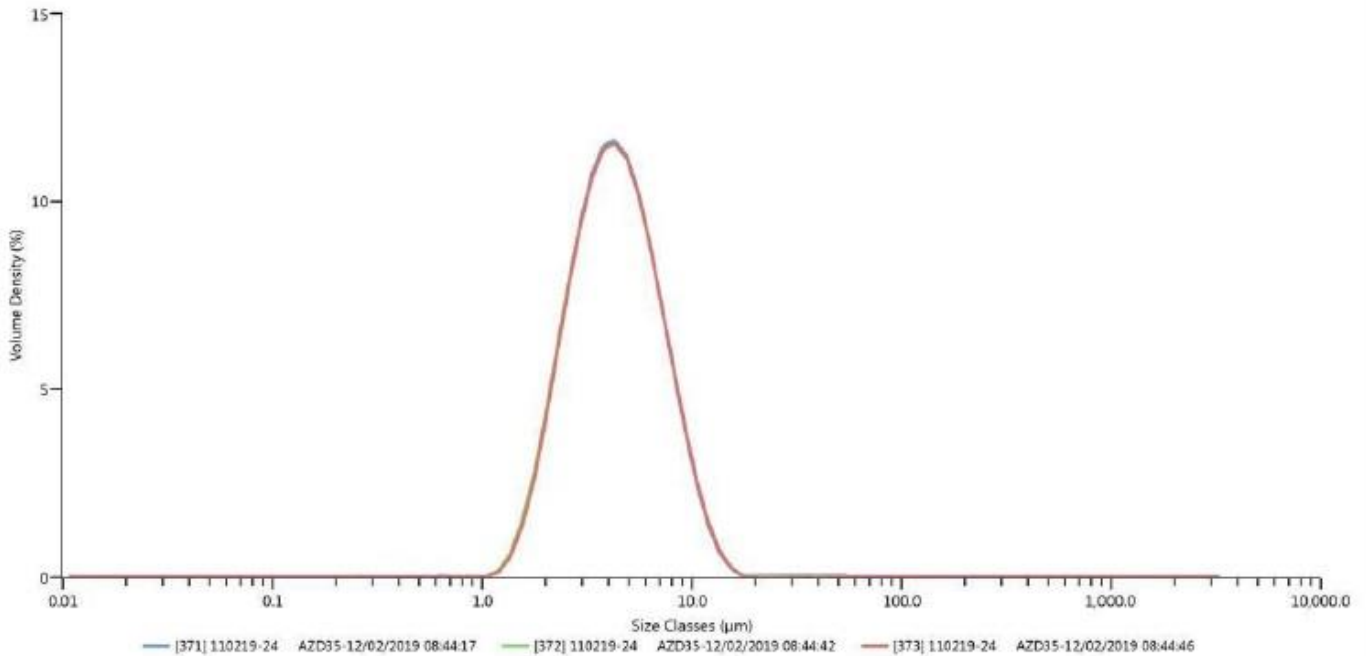
Particle Size Distribution of AZD35 Lot # 110219-24

Particle Size Distribution

QC - ARABIAN ZINC



Frequency (compatible)

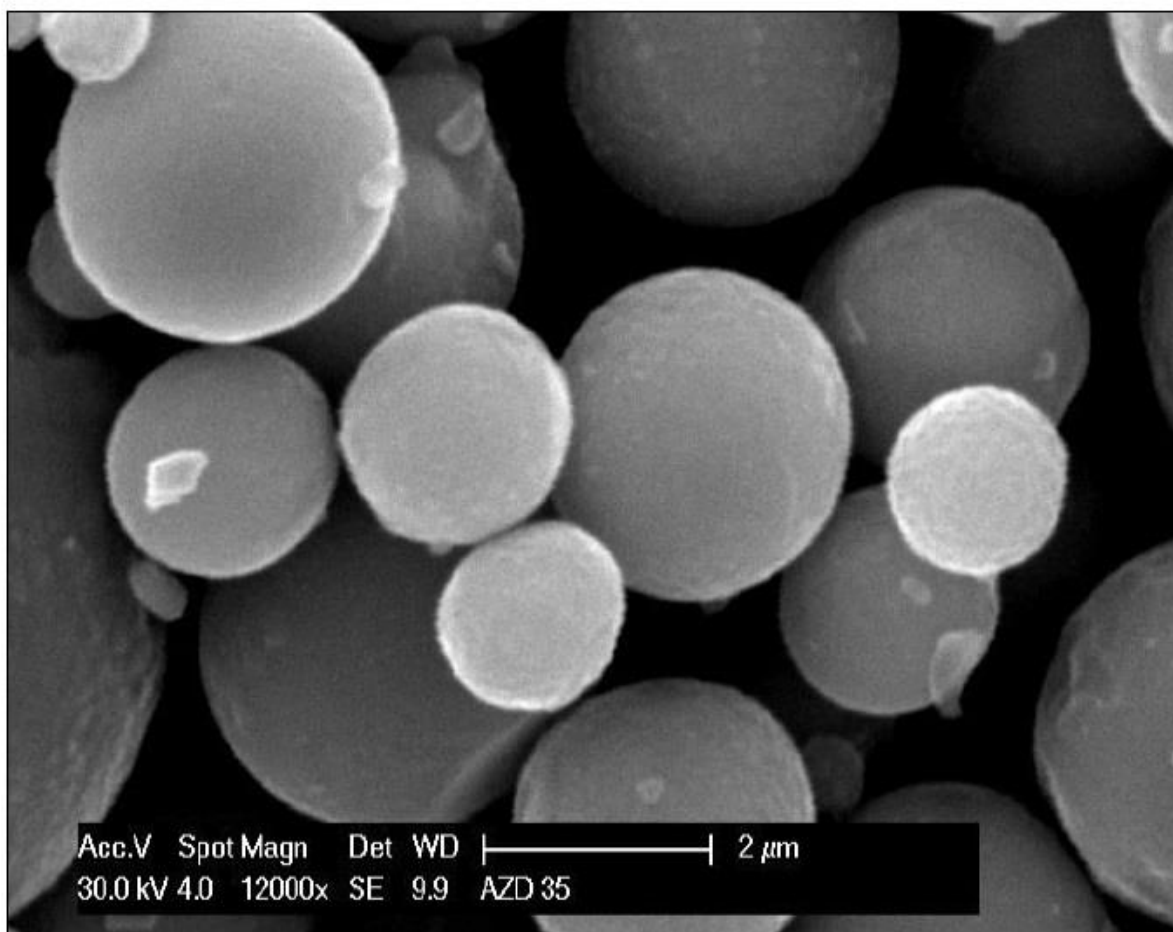


Trend

	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 (%)
	371	110219-24 AZD35	2.23	3.23	4.23	5.57	8.20	9.75	95.50
	372	110219-24 AZD35	2.22	3.22	4.23	5.59	8.25	9.81	95.37
	373	110219-24 AZD35	2.23	3.24	4.25	5.61	8.31	9.94	95.10
Mean			2.22	3.23	4.24	5.59	8.25	9.83	95.32
1xStd Dev			0.00659	0.00848	0.0116	0.0207	0.0547	0.0965	0.21
1xRSD (%)			0.296	0.263	0.274	0.369	0.662	0.981	0.22



Particle Shape – SEM Analysis



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