



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

Technical Data Sheet

Zinc Dust - AZD 69

| Parameters | Parameters | Test Methods |
|-----------------------------------|--------------------|-----------------------------|
| APPEARANCE | Grey Powder | Visual |
| SHAPE | Perfect Spherical | SEM technique |
| AVERAGE PARTICALE SIZE – as Dv 50 | 6 to 9 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) | 0.5% 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:

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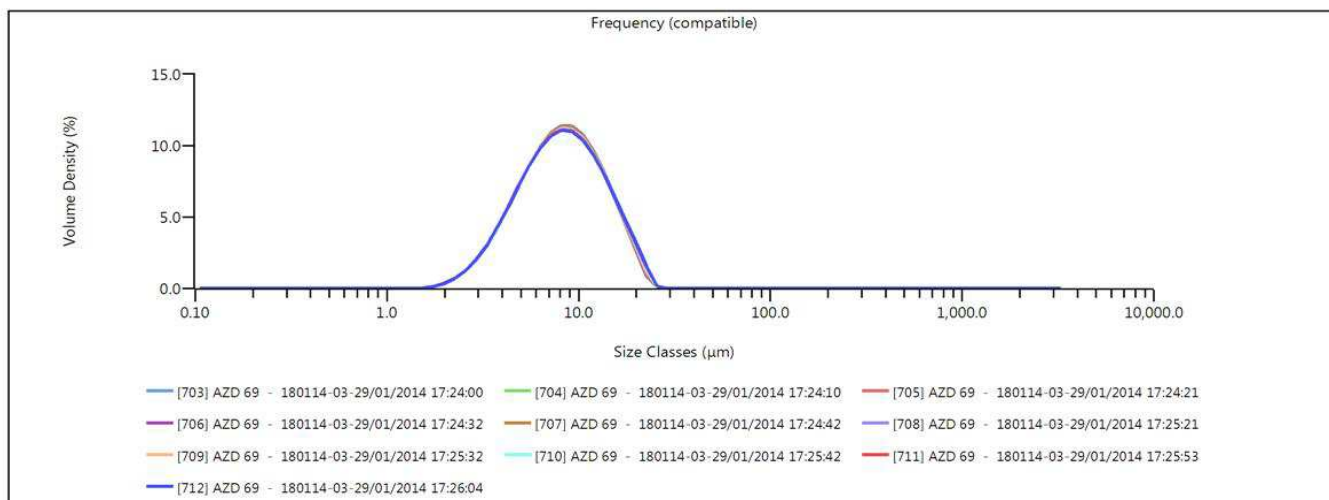
TYPICAL ANALYSIS

| Parameters | Typical results for AZD 69 sample | General specification |
|--------------------------------|-----------------------------------|-----------------------|
| Total Zinc (%) | 99.4% | 98% |
| Metal Zinc (%) | 97.4% | 95% |
| Zinc oxide (%) | 2.6% | 5% max. |
| Particle Size - Dv 50 (Micron) | 8.16 μ | 6 - 9 μ |
| Lead as Pb (ppm) | 0.005% | 0.010% max. |
| Mesh 325 - % Residue | 0.1% | 0.5% max. |
| Oil Absorption | 5.2 | 5 - 7 |
| Specific Gravity | 7.1 | 7.0 - 7.2 |
| Moisture | 0.01% | 0.05% max. |

Particle Size Distribution

Intermediate Chemicals Co. Ltd - PSA Result overlay

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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 (%) |
|------------------|--------------------|----------------|---------------|---------------|---------------|--------------|--------------|------------------------|
| 703 | AZD 69 - 180114-03 | 4.07 | 6.14 | 8.16 | 10.7 | 15.1 | 17.3 | 65.18 |
| 704 | AZD 69 - 180114-03 | 4.07 | 6.13 | 8.15 | 10.7 | 15.2 | 17.4 | 65.16 |
| 705 | AZD 69 - 180114-03 | 4.06 | 6.13 | 8.15 | 10.7 | 15.2 | 17.4 | 65.13 |
| 706 | AZD 69 - 180114-03 | 4.06 | 6.12 | 8.15 | 10.7 | 15.2 | 17.4 | 65.20 |
| 707 | AZD 69 - 180114-03 | 4.05 | 6.12 | 8.15 | 10.7 | 15.2 | 17.4 | 65.14 |
| 708 | AZD 69 - 180114-03 | 4.05 | 6.11 | 8.15 | 10.7 | 15.3 | 17.6 | 65.00 |
| 709 | AZD 69 - 180114-03 | 4.05 | 6.11 | 8.15 | 10.8 | 15.4 | 17.7 | 64.88 |
| 710 | AZD 69 - 180114-03 | 4.05 | 6.12 | 8.17 | 10.8 | 15.5 | 17.9 | 64.67 |
| 711 | AZD 69 - 180114-03 | 4.05 | 6.11 | 8.17 | 10.8 | 15.6 | 18.0 | 64.61 |
| 712 | AZD 69 - 180114-03 | 4.05 | 6.11 | 8.18 | 10.9 | 15.7 | 18.1 | 64.43 |
| Mean | | 4.05 | 6.12 | 8.16 | 10.8 | 15.3 | 17.6 | 64.94 |
| 1xStd Dev | | 0.00852 | 0.0103 | 0.0112 | 0.0547 | 0.193 | 0.272 | 0.28 |
| 1xRSD (%) | | 0.210 | 0.169 | 0.138 | 0.508 | 1.26 | 1.54 | 0.43 |

Result

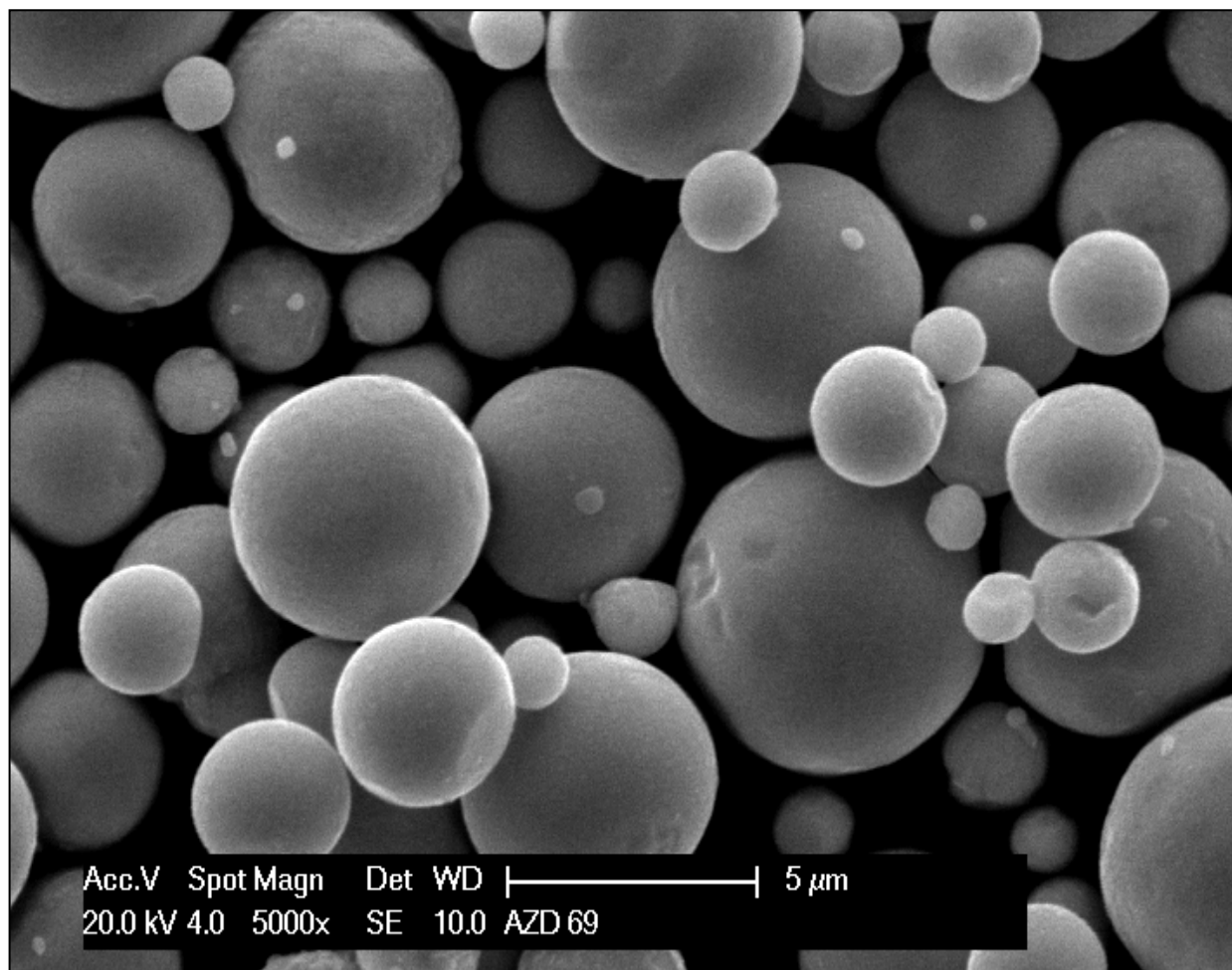
| | |
|---|--|
| Concentration 0.0057 % Uniformity 0.413 Specific Surface Area 122.3 m ² /kg D [3,2] 7.01 µm D [4,3] 8.94 µm | Span 1.356 Dv 10 4.07 µm Dv 50 8.16 µm Dv 90 15.1 µm Volume Below 10 µm 65.18 % |
|---|--|

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Particle Shape – SEM Analysis



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