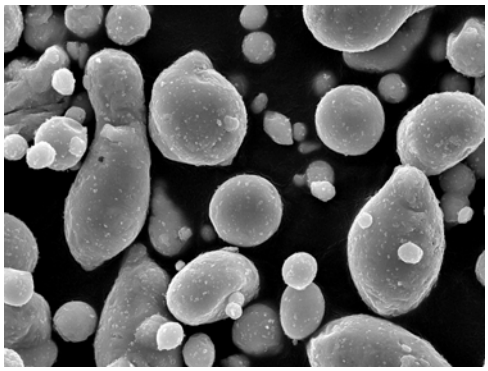
TECHNICAL DATA SHEET

4P16

umicore
Zinc Chemicals

Our product complies with SHG (Z_1) & ASTM D520 Type III norms.



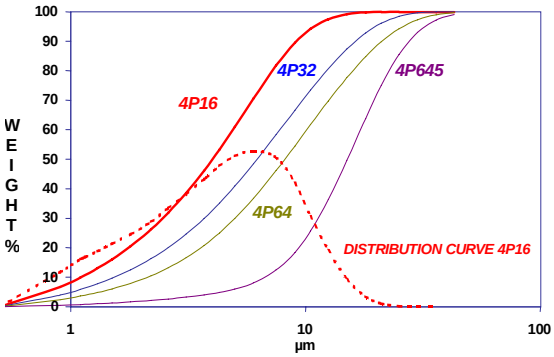
Scanning electron microscope picture of 4P16.

GENERAL PURPOSES

The 4P16 grade is manufactured only with very high purity electrolytic zinc (SHG).

The 4P16 grade is highly recommended for organic or inorganic paints used in thin (20 to 40 µm) or very thin layers (15 to 20 µm) as primers for multi-layered systems, shop primers and blast-primers.

SIZE DISTRIBUTION



CHEMICAL ANALYSIS

Elements	*Method of analysis*	*Specification*	*Typical value*
Total zinc	Titration	**≥ 99.0%**	99.5%
Metallic zinc	Titration	**≥ 96.5%**	97.3%
Pb	AA	**≤ 0.003%**	≤ 0.002%
Cd	AA	**≤ 0.0005%**	0.0001%
Fe	AA	**≤ 0.002%**	0.001%
Others	AA	**≤ 0.001%**	Traces

Chemical analysis methods are performed according to ISO3549 norm.

PHYSICAL PROPERTIES

Elements	*Method of analysis*	*Norms*	*Specification*	*Typical value*
Average Particle size	Fisher Sub sieve Sizer	ASTM B-330/88	**3.4µ– 3.9µ**	3.6µ
Cut-off Diameter	Laser Diffraction	-	**≤ 17µ**	14µ
Sieve Residue at 45µm	Vacuum sieve	ISO 3549	**≤ 0.01%**	0.001%
Tamped density	Engelsmann	ISO R/787		3.6 g/cm³
Specific Gravity	-			7.1 g/cm³

PACKAGING AND STORAGE REQUIREMENT

- Paper Bags, Metal Drums, Pails, Fibre Drums or Bulk bags.
- Storage: indoor in a dry ventilated area.
- Contact with air moisture will reduce the shelf life.

UMICORE ZINC CHEMICALS
Rue de Chênée 53 Boîte 2 - B-4031 Angleur (Belgium)
☏ 32-4-366 64 11 🖷 32-4-366 64 02
www.finezincpowders.umicore.com
comdust.angleur@umicore.com

Edition: June 2005

Certified by BVQI **ISO 14001**

Certified by BVQI **ISO 9001:2000**