

	BASIC ZINC OXIDE ACTIVE			MLA GROUP
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UNIFLOW	Doc. No.:SCPL/SPECS/14	Issue No.: 01	Issue Date: 11.1.2013	Replaces: All previous Issues

ZINCOSIL RT-2

TYPICAL PHYSIOCHEMICAL PROPERTIES

PROPERTY	UNIT	VALUE
Surface Area(BET) ³	m ² /gm	20-25
Bulk density ^{1,4}	gm/cc	0.55-0.65
pH (2% acq. solution) ⁵	%	8-9
Assay [(ZnO) _x (ZnCO ₃) _y (Zn(OH) ₂) _z]	% min	85+-3
Oil Absorption	%	60-80
Pb, Cu, Ni, Mn, Cd	ppm max. (total)	25
Moisture (at 90°C) ²	%	<2.0
Residue on 325 mesh ⁶	%	<1.0

1) At the time of packing 2) By IR Moisture Balance 3) Determined on coulter SA 3100 Surface Area Analyzer (by Nitrogen adsorption BET method) 4) IS: 7589-1974 (A-8) 5) IS: 12076-1986(A-2) 6) IS: 2850-1983 (A-5.1)

APPLICATIONS

- Suitable for following types of rubber-NR, IR, BR, SBR, IIR, CR, EPDM, CSM.
 - Highly elastic vulcanizates (spring components).
 - Can be used as activator in -
1. Sulphur cures
 2. Peroxide cures (often)
 3. Sulphurless metallic-oxide cures.
 4. Used as cross-linking agent for lattices with reactive groups and for CR.

PACKING

25 kgs in new laminated H.D.P.E. bags with loose polythene liner inside.

INCORPORATION/USAGE

1. In large proportions, zinc-oxide active, NK-A behaves like reinforcing filler. It give vulcanizate high tensile strength and rebound resilience with a simultaneous increase in hardness. It also imparts resistance to ageing and protection against flex cracking.
1. Successively larger additions raise the degree of cross linkage and thus improve the mechanical properties of the vulcanizates, especially the modulus, resistance to abrasion and tearing.
2. As its proportion is increased, the thermal conductivity of rubber mixes is raised which is an advantage in hot air curing.
3. Owing to the fineness of particles, RT-spl is very easy to incorporate and disperses well.
4. It raises the viscosity of the mix. Large additions stiffen the mix considerably.

