

Sovrez® 1045Z Powder

Manufacturer: Sovereign Chemical Company
 Classification: Octyl-phenol formaldehyde curing resin with Zinc Oxide
 Contents: 67% Resin & 33% Zinc Oxide
 Chemical Composition: p-t-octylphenol formaldehyde polymer and Zinc Oxide mixture

Specification Properties	Value	Test Method
Ash Content, %	31-35	SCC 112
Sieve Residue on 18 mesh, %	10 maximum	ASTM D4570-02
Typical Properties	Value	Test Method
Physical Form	White yellow powder	Visual
Typical Properties of Resin	Value	Test Method
Methylol Content, %	8-11	Typical
Softening Point, °C	80-95	Ring & Ball
Specific Gravity	0.97-1.05	Typical

> APPLICATIONS

Uses: Sovrez® 1045Z is a thermoreactive phenol formaldehyde resin blended with zinc oxide. It is used in curing butyl and other elastomers with low unsaturation. The usage of Sovrez® 1045Z will provide improved mixing and better dispersion of the curing ingredients compared to adding the resin and zinc oxide separately. This will result in a more consistent product, better physical properties, and prolonged bladder life. The primary uses are in butyl curing bladders, air bags, seals, pharmaceutical parts, masking tapes and other products subjected to high heat and steam. Sovrez® 1045Z gives superior life cycle to butyl products compared to competitive resins.

Processing: Although Sovrez® 1045Z alone can cure the rubber, to obtain a reasonable curing time, the addition of a halogen donor is recommended. A polychloroprene rubber (CR) at a 3 to 5 phr dosage gives the best overall results. Sovrez® 1045Z must be added at the end of the mix cycle. A temperature of at least 110°C, but not higher than 130°C, is required to obtain a good dispersion without risking scorching.

Recommended Dosage: The resin dosage depends on the properties desired, and the level and type of polychloroprene used. In most cases the level of Sovrez® 1045Z used should be between 8 and 15 phr.

> PACKAGING AND STORAGE

Packaging: 20 kg (44.09 lb.) bags.

Shelf Life: 1 year from date of manufacture if stored as indicated below.

Storage: Store in unopened original packages in a cool dry place.

Specification Date: November 14, 2014