



SOVEREIGN CHEMICAL COMPANY

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Sovrez® 1055Z Powder

Manufacturer:	Sovereign Chemical Company
Classification:	Heat reactive curing resin with Zinc Oxide
Contents:	67% Resin & 33% Zinc Oxide
Chemical Composition:	Brominated octyl phenol/formaldehyde and Zinc Oxide blend

Physical Data

Specification Properties	Value	Test Method
Ash Content	31.0-35.0%	SCC 112
Sieve Test	90% < 18 mesh	ASTM D4570-02
Typical Properties		
Physical Form	Powder	Visual
Color	Yellow	Visual
Typical Properties of the Resin		
Softening point	80-95°C	Ring & Ball
Methylol content	10.0-14.0%	Typical
Bromine Content	3.6 – 4.0%	Typical
Specific Gravity	1.05	Typical

Applications

Uses: **Sovrez® 1055Z** 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® 1055Z** 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® 1055Z** gives superior life cycle to butyl products compared to competitive resins.

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® 1055Z** used should be between 8 and 15 phr.

Sovrez 1055Z® 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 in order to obtain a good dispersion without risking scorching.

Packaging and Storage

Packaging: 25 kg (55.1 lb) bags.

Shelf Life: 1 year if stored as indicated below.

Storage: Store in cool, dry storage area in original packaging.

Specification Date: July 9, 2010 (Supersedes: June 24, 2010)