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## CHEMICAL DISPERSIONS -MASTERBATCHES-

### AKROFORM<sup>®</sup> VC-40/EPR/P AKROSPERSE<sup>®</sup> VC-40/EPR/S and VC-40/NBR/S

#### PRODUCT DESCRIPTION:

Akroform VC-40/EPR/P, Akrosperser VC-40/EPR/S and Akrosperser VC-40/NBR/S are dispersions of an organic dialkyl peroxide chemically identified as a,a'-bis-(t-butylperoxy) diisopropylbenzene. "VC" peroxide is used as a cross-linking agent for synthetic and natural elastomers and polyolefins such as polyethylene and ethylene vinyl acetate. This peroxide is noted for its safe processing (maximum safe processing temperature is about 140°C) and curing temperatures (optimum curing temperature is 175°C +/- 10°C).

#### TYPICAL PROPERTIES:

##### Appearance:

Akroform.....	white to off-white ¼ inch cubes
Akrosperser .....	white to off-white slabs
Peroxide Content (%).....	40
Polymeric Binders.....	EPR, NBR
Shelf Life.....	12 months

#### APPLICATIONS:

VC peroxide is used as a catalyst for cross-linking any synthetic or natural elastomer or polyolefin that can be cured with peroxides. Due to its half life, this peroxide encompasses a safer compromise of scorch and cure rate. VC peroxide has an approximate 10 hr., 1 hr. and 0.1 hr. half live of 126 °C, 146°C and 191°C, respectively. For reference, if switching from dicumyl to VC peroxide, use only 0.63 as much active VC peroxide as active dicumyl to achieve the same state-of-cure and modulus.

#### ADVANTAGES:

Polymer bound or encapsulated dispersions are a proven means of upgrading plant safety, efficiency, quality & raw material control.

Akrochem polymer bound or encapsulated chemical dispersions eliminate any irritating dust, as well as other potential hazards in handling powders in the plant. The physical form is easy to handle and weigh accurately. With a dispersion, better uniformity of the mix at lower processing temperatures is possible.

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