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CHEMICAL DISPERSIONS
-MASTERBATCHES-

PERKADOX® 14-EP40

Di(tert-butylperoxyisopropyl) benzene

PRODUCT DESCRIPTION:

Perkadox 14-EP40 is a dispersion of an organic dialkyl peroxide chemically identified as di(tert-butylperoxyisopropyl) benzene. Perkadox 14-EP40 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	off-white granules
Peroxide Content (%)	40
Specific Gravity	1.05
Packaging	44.1

APPLICATIONS:

Perkadox 14-EP40 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. Perkadox 14-EP40 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 perkadox BC-EP40 to perkadox 14-EP40, use only 0.63 as much active perkadox 14-EP40 peroxide as active perkadox BC-EP40 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.

tee 3/25/2021, t-perkadox 14-ep40