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RUBBER CHEMICALS -PEROXIDES-

AKROCHEM® VCP

DESCRIPTION:

Akrochem VCP is an organic dialkyl peroxide chemically identified as t-butylperoxy-diisopropyl benzene and is used as a crosslinking agent for synthetic and natural elastomers and polyolefins such as polyethylene and ethylene vinyl acetate. This peroxide is noted for its low odor and high reactivity at medium-high processing and curing temperatures (see half-life times below). SADT (self accelerating decomposition temperature) is 80°C and the safe processing temperature ($t_{2>20}$ mins.) is 135°C. Store this peroxides as close to room temperature as possible.

TYPICAL PROPERTIES:

<i>Grade:</i>	<i>VCP</i>	<i>VC-40C</i>	<i>VC-40K</i>
Form	flake	powder	powder
Peroxide Content	96	40	40
Sp.Gravity (calc.)	1.03	1.62	1.62
Filler/Binder Type	---	calcium carbonate	Burgess KE kaolin

APPLICATIONS:

Akrochem VCP peroxide is used as a catalyst for crosslinking any synthetic or natural elastomer or polyolefin that can be cured with peroxides. The advantages of VCP peroxide over TMC (1,1 bis(t-butylperoxy) 3,3,5-trimethylcyclohexane) and DCP (dicumyl peroxide) are: higher crosslinking efficiency, low odor and longer scorch times. The powdered or granular forms provide ease of handling and weighing accuracy.

<u>Half-life times</u>	<u>Akrochem TMC</u>	<u>Akrochem DCP</u>	<u>Akrochem VCP</u>
10 Hours (°C)	96	116	124
1 Hour (°C)	115	134	142
1 Minute (°C)	147	172	183
Recommended Cure Temp.(°C)	135-200	160-205	170-210
Approx. Equivalent State-of-Cure (phr)	2.00	1.60	1.00

Note: This peroxide is also available in a 40% active masterbatch form, either in slabs (Akroperse®) or pellets (Akroform®). For more information see Akroform VC-40/EPR/P in the Peroxide Section.

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