

CRI-SIL Silicone Technologies, LLC  
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DCUP 40-C

**Product Description**

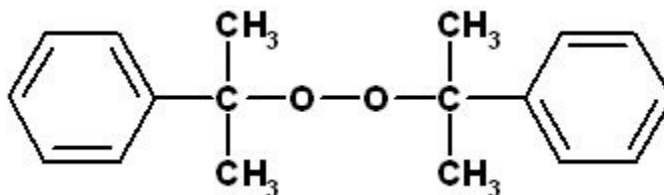
CRI-SIL DCUP 40-C (product code: CT0055) is a white pellet consisting of approx. 40% dicumyl peroxide, desensitized with calcium carbonate. This diaralkyl peroxide is used as an initiator (radical source) in the cross-linking of polymers and for curing of unsaturated polyester resins.

**Typical Properties**

Appearance/Consistency	White Pellet
Peroxide Content, % (w/w)	40
Active Oxygen, % (w/w)	5.42
Critical Temperature, Celsius (SADT)	~80
Recommended Storage Temperature, Celsius	30
Storage Stability as from date of delivery, months	6
Half-Life time: 10h/1hr/1min (0.1 m/benzene), Celsius	112/138/162

**Chemical Data**

Chemical Name:	Dicumyl peroxide
Chemical Formula:	C <sub>18</sub> H <sub>22</sub> O <sub>2</sub>
CAS-No.	80-43-3
Molar Mass	270.4 g/mol





## Application Information

### **Crosslinking information:**

DCUP-40C peroxide designed for crosslinking many polymers and elastomers, especially ethylene/vinyl acetate copolymer (EVA or EAM), ethylene/propylene/(diene)rubber (EPM, EPDM), silicone rubber (VQM, FVQM, PQVM) and fluor elastomers (FKM).

Crosslinking temperature: above 170°C. Below 130°C no premature crosslinking (scorch) occurs.

Usage level: 1-6% of product as supplied on material to be cross-linked. With a few unreactive polymers, crosslinking efficiency can be improved by the addition of 1-5% of coagents (e.g. TAC or EDMA).

### **Special advantages of this peroxide:**

- ✓ Efficient
- ✓ Very versatile for multiply polymers
- ✓ No blooming on the vulcanized surface

## Storage and Handling

DCUP-40C Catalyst can be used safely as long as the user understands the properties of the material and general precautions are taken. Since this material is an “oxidizing agent” and thermally stable at ambient temperatures some, slight gas evolution occurs. This material should be stored in an area that is less than 20°C. It is flammable and should be kept away from open flames or any combustion able source. It will burn fiercely when ignited. If contaminated, decomposition or other reactions can occur followed by gas and heat. In extreme cases of contamination brought on by an action of heat, violent decomposition may take place liberating noxious flammable fumes. Contact with, for example, rags, clothing or combustible materials, organic materials may cause a pressure burst due to gas evolution. The material can cause severe damage to eyes, and is a skin irritant.

## Additional Warnings

1. Organic Peroxides may cause eye and skin irritation.
2. Danger of Hazardous Decomposition if exposed to heat or contamination. (May cause fire.)
3. Store in cool clean place 5- 30 degrees C. 41 to 86 degrees F.
4. Do not store in contact with amines, cobalt, vanadium accelerators, heavy metal salts, acids, alkalis, reducing compounds, flammable materials, combustibles, mild steel metal dusts.
5. Keep away from direct sunlight.
6. Store any amount over 300lbs in a separate non-combustion able building with a separate blow off roof.
7. Wear gloves and goggles when handling this material.
8. Get immediate medical attention if ingested or inhaled

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