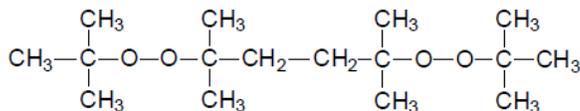


LUPEROX® 101SIL45

Organic Peroxide

Introduction & Applications

Luperox® 101SIL45 organic peroxide is a 45-48% active weight formulation of pure Luperox® 101 dispersed on silica filler. This peroxide formulation disperses completely into unfilled silicone elastomers to provide transparent crosslinked products that are identical in appearance to using the liquid peroxide without filler. This product overcomes issues of poor dispersion that may occur with other peroxide filler formulations. It is very useful for curing various elastomers such as EPDM, FKM and HNBR to produce hose, O-rings, seals and a multitude of other critical parts.



Product Description

Chemical Name	CAS-No.	Wt/Wt
silica flow aid	112926-00-8	>= 50%
2,5-dimethyl-2,5-di-(tert-butylperoxy)hexane	78-63-7	45% - 48% Assay

Standard Sales Specifications

physical form/description	free flowing white powder
active oxygen	4.96 – 5.29 %

Half-Life Data

Half-life can be defined as the time required at a specific temperature, to affect a loss of one-half of the peroxide's active oxygen content. The efficiency of a free radical initiator depends upon its rate of decomposition.

Half-life data can be a useful guide in selecting the optimum initiator for a specific application. Several factors apply to half-life data obtained in dilute solution:

- Use only applies to thermal peroxide decomposition
- Half-life varies in different solvents due to induced decomposition if no radical scavenger is present

Temperature Tolerance

Do not store above: 38°C (100°F)

Shelf-Life

Luperox® 101SIL45 crosslinking peroxide has a shelf-life of 12 months from the date of Arkema delivery.

Packaging

Luperox® 101SIL45 crosslinking peroxide is packaged in 50 lbs. cartons.

Availability

Luperox® 101SIL45 crosslinking peroxide is available worldwide from regional manufacturing sites. To discuss availability or speak to a salesperson, please call 844-LUPEROX.

Typical Physical Properties

SADT	82°C (180°F) 100 lb container
Bulk Density	417 kg/m3

Time	Deg C	Deg F
10 hours	120	248
1 hour	140	284

LUPEROX®
BY ARKEMA

Luperox® Organic Peroxides Worldwide



- Organic Peroxides Plants
- ▲ Research Centers

- Piffard, NY
- Franklin, VA
- Crosby, TX
- Coatzá, MX
- Rio Claro, BR

- S King of Prussia, PA

- Gunzberg, DE
- Spinetta, IT
- Anagni, IT
- Jubail, KSA
- Cuddalore, IN
- Jinhae, KR
- Fukuoka, JP
- Changshu, CN

- S Pierre-Benite, FR
- Changshu, CN

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