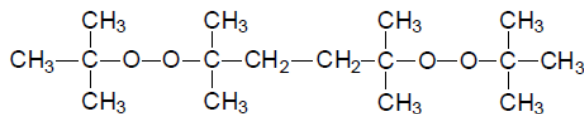


# LUPEROX® 101XL45

## Crosslinking Peroxide

### Introduction & Applications

Luperox® 101XL45 crosslinking peroxide is a free-flowing powder of 45% active weight. The inert portion of the formulation is calcium carbonate and silica. This formulation is useful in the crosslinking of engineered rubber and elastomers. In the mixing of these compounds using various technologies, Luperox® 101XL45 offers users better ease-of-use during compounding or extrusion, relative to using a pure liquid peroxide.



### Product Description

Chemical Name	CAS-No.	Wt/Wt
2,5-dimethyl-2,5-di-(tert-butylperoxy)hexane	78-63-7	45-48 %
calcium carbonate		< 26 %
silica (flow aid)		< 26 %

### Standard Sales Specifications

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

### Typical Physical Properties

SADT	82°C (180°F)
bulk density	550 kg/m <sup>3</sup>

### 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 thermolytic decomposition
- Half-life varies in different solvents due to induced decomposition if no radical scavenger is present

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

### Temperature Tolerance

**Do not store above: 38°C (100°F)**

### Shelf-Life

Luperox® 101XL45 crosslinking peroxide has a shelf-life of 12 months from the date of Arkema delivery.

### Packaging

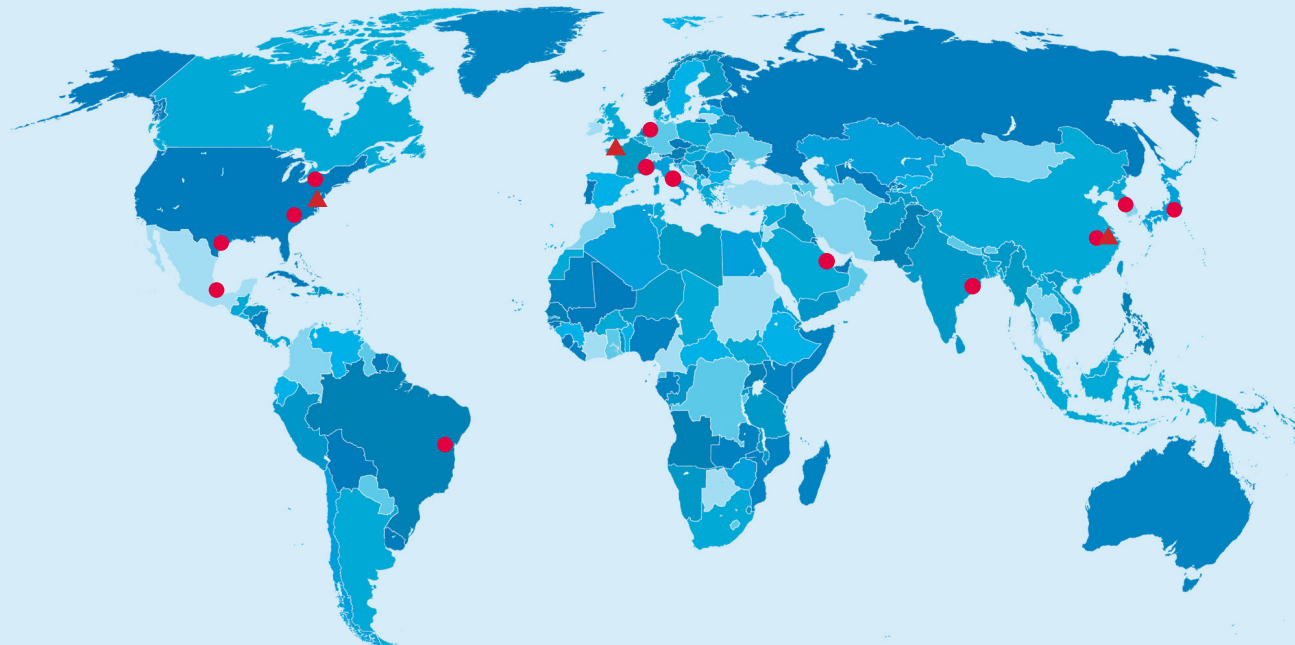
Luperox® 101XL45 crosslinking peroxide is packaged in 50-pound boxes.

### Availability

Luperox® 101XL45 crosslinking peroxide is available in North America from Arkema and authorized distributors. To discuss availability or speak to a salesperson, please call 844-LUPEROX.

**LUPEROX®**  
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