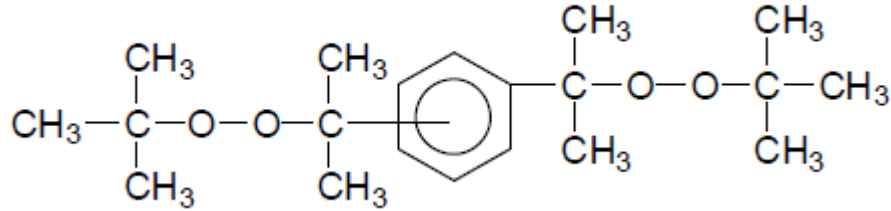


LUPEROX[®] AIR[®] XL 80

POWDER



1, 3 and 1, 4-BIS(TERT-BUTYLPEROXYISOPROPYL)BENZENE

MOLECULAR WEIGHT: 338.5

CAS NUMBER: 25155-25-3

EINECS: 207-439-9

APPLICATION

Luperox[®] AIR[®] XL 80 is a peroxide formulation used for the crosslinking of synthetic rubbers. This product is protected against oxygen inhibition and can be used in open curing technologies like UHF and hot air tunnel giving profiles with no surface undercuring and tackiness. It can also be used in steam autoclave curing to reduce or eliminate the need of purge. In injection and compression molding technologies it can eliminate the mold fouling due to the air trapped in the mold cavity.

This peroxide is suitable for many applications such as building and automotive profiles, automotive rubber parts, wire and cable, technical rubber parts. It is efficient crosslinking agent for synthetic polymers like EPM, EPDM, (H)NBR, EVA, EBA, EMA, EEA and FKM.

SPECIFICATIONS

	Unit	Value	Method of analysis
Physical form	-	powder	AM/I/71/A
Peroxide content	% w	45.0 – 51.0	AM/I/167/A
Active oxygen	% w	4.26 – 4.83	AM/I/167/A

CHARACTERISTICS

	Unit	Value
Density (typical value)	kg/m ³	1384
Bulk Density (typical value)	kg/m ³	273
Half-life time (in decane) (pure Luperox [®] F)	minutes	1 (at 181°C)
		6 (at 162°C)
		60 (at 139°C)
Melting point (pure Luperox [®] F)	°C	37-57
SADT (1)	°C	80
MST (2)	°C	30

(1) Self-Accelerating Decomposition Temperature

(2) Maximum Storage Temperature

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LUPEROX® AIR® XL 80

DECOMPOSITION PRODUCTS

The main decomposition products are methane, acetone, tert-butyl alcohol, diacetyl benzene, diisopropanol benzene. Use adapted ventilation system to extract the volatile organic compounds from the working area.

STANDARD PACKAGING

15 kg plastic bag in a carton box.

SAFETY - HAZARD

Please consult the Safety Data Sheet before using the product.

Because of the intrinsic reactivity of organic peroxides, when product is issued in UHF curing tunnels, magnetrons power has to be thoroughly regulated. To avoid scorching in the UHF tunnel, it is suggested to start-up the line with low power and then raise it step by step, until sufficient curing temperature is reached.

STORAGE - HANDLING

Please consult the Safety Data Sheet or the brochure « Safe handling of Organic Peroxides ».

Storage temperature: < 30°C

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See MSDS for Health & Safety Considerations

TDS Updated August-2020

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