

Milano, 07.07.2020

Spett.le T&T Metalli

Sig. Ramacci

OBJECT: Equivalenza tra Luperox® K1 E and Retic® C101 E

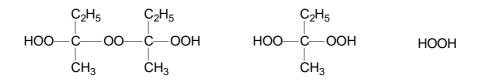
Egregio cliente,

Certifico che il prodotto Luperox® K1 E e il prodotto Retic® C 101 E sono equivalenti tra loro. Vengono forniti dallo stesso impianto ed utilizzano le stesse materie prime.

Cordiali Saluti

Stefano Zani





METHYL ETHYL KETONE PEROXIDE

CAS Nr.: 1338-23-4 EINECS: 215-661-2

APPLICATIONS

Luperox® K1S is Methyl Ethyl Ketone Peroxide used for the cure of unsaturated polyester resins at room temperatures in combination with a cobalt accelerator. Luperox® K1S is used for applications such as hand lay-up, spray up, centrifugal casting, filament winding, polyester concrete, etc. It is particularly suitable for gel coat curing. Its low viscosity makes it ideal for spray-up techniques (airless) with external mixing. Faster reaction with shorter demold times can be obtained by the addition of promoters such as dimethyl aniline.

SPECIFICATIONS

	Units	Values	Method of Analysis
Physical form	-	Clear liquid	AM/I/71/A
Active oxygen	% w	9.0 - 9.4	AM/I/53/C

CHARACTERISTICS

	Units	Values
Density at 20°C	g/ml	1,128
Viscosity at 20°C	mPa s	16
Flash point (setapoint)	°C	65
S.A.D.T (1)	°C	60

(1) Self-Accelerating Decomposition Temperature

DOSAGE

Typical concentrations for Luperox $^{(8)}$ K1S run from 1 to 3% by weight based on resin and for cobalt accelerator from 0,25 to 4% based on 1% metal content solution. Luperox $^{(8)}$ K1S is recommended for the curing of ortho- and isophthalic resins at temperatures between 15°C and 50°C.

Replacing Luperox[®] K1G with Luperox[®] K1S:

Dosage by weight: Dosage is strictly identical Luperox® K1S and Luperox® K1G to obtain same curing performance.



LUPEROX® K1S

Dosage by volumetric pumps: Because of it slightly higher density, volumetric metering should be increased when replacing Luperox[®] K1G with Luperox[®] K1S. **1 volume of Luperox[®] K1 should be replaced by 0,9 volumes of Luperox[®] K1S**. The table below simplifies volume dosage conversion:

Dosage volume			
LUPEROX [®] K1G	LUPEROX® K1S		
1	0,90		
1,5	1,36		
2	1,81		
2,5	2,26		
3	2,71		

CURING PROPERTIES

For comparison purposes, the table below shows activities of different MEKPs.

Product	Gel time	Cure time	Peak exothermic
LUPEROX® K1S	7 minutes	16 minutes	146°C
LUPEROX® K1G	7 minutes	16 minutes	144°C
LUPEROX® K10	5 minutes	10 minutes	144°C

Tests were carried out at 25°C on 25g of medium activity resin pre-accelerated with 1% of LUPERFAST™ CO 1G (cobalt accelerator 1% metal content solution) and with 2% of MEKP.

Luperox[®] K1S is equivalent in reactivity to Luperox[®] K1G.

STANDARD PACKAGING

25 kg drums and 4*5 kg.

SAFETY - HAZARD

Please consult the Safety Data Sheet before using the product.

STORAGE - HANDLING

Product can be stored minimum three months after receiving date, if kept in appropriate conditions and below its maximum storage temperature. Refer to the Safety Data Sheet for detailed storage instructions.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See MSDS for Health & Safety Considerations

