

Product Specification

LANXESS CorporationSpec. no.57747505Material Protection ProductsIssue003111 RIDC Park West DriveDate2017-06-19

Pittsburgh, PA 15275

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OXONE™ PS - 16 MONOPERSULFATE COMPOUND

CAS no. 70693-62-8

Chemical Description Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Common Name $Oxone^{TM} \ PS - 16$ $Empirical \ Formula \qquad \qquad H_3K_5O_{18}S_4$

Structural Formula $K_5(HSO_5)_2.HSO_4.SO_4$

Description

White, granular, free-flowing powder

Specification

	Characteristic	Specification	Unit
01.	Appearance	Complies	
	Visual Description		
02.	Active Oxygen	≥ 4.50	%
	Iodometric Titration		
	OP 960		
03.	Free Moisture	≤ 0.10	%
	Moisture Balance Method		
	OP 968		
04.	Particle Size		
	# 16 (1180 μm):	99 – 100	% Pass thru
	# 20 (850 μm):	80 – 100	
	# 30 (600 μm):	63 – 100	
	# 100 (150 μm):	5 – 33	
	# 200 (75 μm):	0 – 10	
	# 325 (45 μm):	0 – 3	
	Dry Screening		
	OP 902		

Specification values are subject to constant monitoring

Replaces Issue: 002

Reason: Analytical method reference codes updated

Page 1 of 3: This document contains important information and must be read in its entirety.



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Physical Properties*

Characteristic	Typical Value	Unit
Typical Active Oxygen	4.7	%
Bulk Density	75 – 87	lb/ft ³
	1.20 – 1.40	g/cm ³
pH of 1% Solution at 25 °C (77 °F)	2.3	
pH of 3% Solution at 25 °C (77 °F)	2.0	
Solubility at 20 °C (68 °F) / 100 g H ₂ O	29.8	g
Standard Electrode Potential (E°)	+1.85	V
Heat of Decomposition	251	kJ/kg
Molecular weight	614.77	g/mol

^{*}These items are provided as general information only. They are approximate values and are not considered part of the product specifications.

Storage

Oxone[™] PS - 16 should be stored in cool, dry areas, away from combustible materials, incompatible chemicals and sources of heat, such as space heaters and light fixtures. Prolonged storage at ambient temperatures greater than 32 °C (90 °F) should be avoided.

Oxone™ PS - 16 decomposition will be accelerated on contact with moisture. Product packaging includes a water- resistant liner, but storage conditions should also include provisions for prevention of contact with water, including high airborne humidity.

When stored under recommended environmental conditions (cool dry environment, T < 32 $^{\circ}$ C (90 $^{\circ}$ F), RH < 50 %), and in original moisture-barrier packaging, a shelf life of one year from the date of production can be expected. That is, the product will still be free-flowing and have an active oxygen content of at least 4.50 %. When not stored under recommended conditions, product caking and significant AO loss can occur in the 6 - 12 month time frame.



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Further Information

The safety data sheet 57747505 should be observed. This contains information on labelling, transport and storage as well as information on handling, product safety and ecology. For additional technical information see "General Technical Attributes" and "Product Safety and Handling".

Use biocides safely. Always read the label and product information before use.

Health and Safety Information: Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS.

LANXESS Corporation

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Note: The information contained in this publication is current as of April, 2017. Please contact LANXESS Corporation to determine if this publication has been revised.

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