



Trigon Chemicals Pvt. Ltd.

(ISO 9001:2008 Certified Company)

722/AB/15, Nirmal, Laxmi Park Colony, Navi Peth, Pune-411 030. India., Tel: +91 (20) 24530071, Fax: +91 (20) 24530110
Email: aditya@trigon-chemie.com, www.trigon-chemie.com

POLYMER ADDITIVES	ANTIOXIDANT PRIMARY
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AO-2246	Technical Datasheet
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Product Information: POLYMER ADD-AO 2246 colourless, to slightly cream coloured crystalline powder, belonging to group of non-discolouring stearically hindered phenol. POLYMER ADD-AO 2246 is non-toxic, no pollution, non staining. POLYMER ADD-AO 2246 protects against heat, oxidation and prevents cracking and ageing. The most common use is in white or bright coloured rubber Natural and synthetic rubbers (SBR, BR, IR, NBR) , as well as plastic products which are exposed to direct sunlight or heat.

Chemical Name	2,2'-METHYLENEBIS(6-TERT-BUTYL-4-METHYLPHENOL)		
Grade Name	AO-2246		
CAS No.	119-47-1		
EINECS No.	204-327-1		
Molecular Formula	C23H32O2		
Synonyms	<ul style="list-style-type: none">• 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol• 2,2'-Methylene bis (4-methyl-6-tert-butylphenol)• 2,2'-Methylene-bis(6-tert-butyl-para-cresol)		
TEST	SPECIFICATION	METHOD	
Appearance	Pale cream to white powder.	Visual	
Purity	>99 %	By GC	
Melting Range	120 - 132 °C	Melting point apparatus (open capillary tube method)	
Ash Content	<0.5 %	Open crucible	
Solubility at 20 °C	Solvent	Solubility (gm/100ml)	Visual
	Acetone	175	
	Ethanol	154	
	Ethyl acetate	134	
	n-Heptane	8	
	Toluene	62	
	Water	< 0.01	

Product Applications:

1. POLYMER ADD-AO 2246 is an excellent long term stabilizer for synthetic rubbers & latexes by protecting against the effect of oxygen and heat without influencing processing or vulcanization properties.
2. POLYMER ADD-AO 2246 is also used as a stabilizing agent in polyacetates, polyacrylates and mineral oil products that are exposed to high temperatures.
3. AO2246 is primarily used for Natural and synthetic rubbers (SBR, BR, IR, NBR) and latices, to protect against heat, oxidation, cracking & aging and in recent years has been used as stabiliser of choice for polyacetates,



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polyacrylates, ABS, and mineral oil products which are exposed for high temperatures.

Product Benefits:

1. POLYMER ADD-AO 2246 has low volatility.
2. It is an excellent, low-discolouring, non-staining antioxidant and thermal stabilizer.
3. POLYMER ADD-AO 2246 is FDA and BGA approved.

Product Dosage: We strongly recommend testing of your own system under the actual conditions of processing and end-use prior to full scale testing. Exact loading must be determined by compositions of the specific polymer systems. In general the dosage recommended for long-term thermal stability in polymer, however individual dosage information is as follows.

Polymer Details	Suggested dosage
Optimum dosage	0.20 - 0.75 %
SBR& NBR Based elastomers	0.2 - 1.2%
Olefin polymers in food contact	< 0.1 %
Olefin polymers	< 0.1 %
Polyoxymethylene copolymer	< 1.0 %
Polyoxymethylene homopolymer	< 0.5 %

Product Handling & safety:

Please refer to our product MSDS for specific instructions on handling this product.

Product Registration: POLYMER ADD-AO 2246 is approved for use in food contact polymer as per the following chapter headings.

Title: 21 - Food And Drugs
Chapter: I - Food And Drug Administration, Department Of Health And Human Services (Continued)
Subchapter: B - Food For Human Consumption (Continued)
Part: 175 - Indirect Food Additives: Adhesives And Components Of Coatings
Subpart: B - Substances For Use Only As Components
Section: 175.105 Adhesives.

Product Registration: POLYMER ADD-AO 2246 is approved for use in food contact polymer as per the following chapter headings.

Title: 21 - Food And Drugs
Chapter: I - Food And Drug Administration, Department Of Health And Human Services (Continued)
Subchapter: B - Food For Human Consumption (Continued)
Part: 177 - Indirect Food Additives: Polymers
Subpart: C - Substances For Use Only As Components
Section: 177.2600 Rubber Articles Intended For Repeated Use.

Product Registration: POLYMER ADD-AO 2246 is approved for use in food contact polymer as per the following chapter headings.

Title: 21 - Food And Drugs



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Chapter: I - Food And Drug Administration, Department Of Health And Human Services (Continued)

Subchapter: B - Food For Human Consumption (Continued)

Part: 178 - Indirect Food Additives: Adjuvant, Production Aids, And Sanitizers

Subpart: C - Antioxidants And Stabilizers

Section: 178.2010 - Antioxidants And/Or Stabilizers For Polymers.

Product Disclaimer

Important : This statement supersedes any Buyers documents. Seller makes no representation, Warranty, Express or Implied, Including of Merchantability of Fitness for a particular use, or purpose.

No statement herein is to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seler be liable for incidental, consequential or indirect damanges for alleges negligence breach of warranty, strict liability, and tort or contact rising in connectoin with product(s). Buyers sole remedy and Sellers sole Liability for any claims shall be buyers purchase price. Data and results are based on controlled or lab work and must be confirmed by the buyer by testing for its indented conditions of use.

This product is not been tested for, and is therefore not recommended for, use for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or fur use for which implantation within human body is intended.