

AO1425 PLAIN

Technical Datasheet

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| Chemical Name | CALCIUM BIS[MONOETHYL(3,5-DI-TERT-BUTYL-4-HYDROXYBENZYL)PHOSPHONATE] | |
| Grade Name | AO1425 PLAIN | |
| CAS No. | 65140-91-2 | |
| HS Code | 29319090 | |
| EINECS No. | 265-512-0 | |
| Molecular Formula | C34H56O8P2Ca | |
| Synonyms | <ul style="list-style-type: none"> • ANTIOXIDANT 1425 • 3,5-DI-TERT-BUTYL-4-HYDROXYBENZYLPHOSPHONICACID,ETHYL ESTER | |
| TEST | SPECIFICATION | METHOD |
| Appearance | White Powder | Visual |
| Purity by HPLC % | Min 97% | HPLC |
| Volatiles % | Max 0.5% | Thermogravimetry |
| % Calcium | 5.5 % -5.9 % | AAS |
| Transmittance | 425 nm | Colorimeter/Spectrophotometer/Whiteness meter |
| Transmittance | 500 nm | Colorimeter/Spectrophotometer/Whiteness meter |
| Particle Size D50 Microns | Max 5 Microns | Particle Size Analyzer (Wet Method) |
| Particle Size D90 Microns | Max 10 Microns | Particle Size Analyzer (Wet Method) |
| Bulk Density - Tapped @25°C (gm/ cm3) | 0.25-0.35 gm/ cc | Graduated Cylinder |
| Melting Range (Degrees C) | Min 260 Degrees C | Melting Point Apparatus (Open Capillary Tube Method) |

Product Information:

- AO 1425 is widely used for PP fiber grades to protect the fibers from Gas Fading (exposure to water and NO2 gas).
- It is used as an antioxidant in a polyethylene wax carrier for polypropylene fibers.
- It is also used in polyesters, cross linking elastomers, specialty adhesives, natural and synthetic resins.
- AO 1425 can be used in polyamide resin.

Product Handling & safety:

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

Product Registration:It 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: 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 Seller be liable for incidental, consequential or indirect damages for alleged negligence breach of warranty, strict liability, and tort or contact rising in connection 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 for use for which implantation within human body is intended.