

DR. J. PHARMACHEM PVT. LTD.

CIN : U2429PN215PTC155488

Regd Office: 722/AB/15, "Nirmal", Laxmi Park Colony, Navi Peth, Pune-411 030. India.

Telephone: +91 (20) 24530071 / 24530110

Email: sales@jpharmachem.com, Web: www.jpharmachem.com



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NA 228

Technical Datasheet

Product Information: NA 228 is nucleating agent for polypropylene. Norbornane-2,3-dicarboxylic acid disodium salt CAS : 351870-33-2 Ratio : 80% Erucamide CAS : 112-84-5 Ratio : 10% Amorphous Silca CAS : 7631-86-9 Ratio : 10% Water CAS : 7732-18-5 Ratio : 01%

Chemical Name	DISODIUM CIS-BICYCLO(2.2.1)HEPTANE-2,3-DICARBOXYLATE		
Grade Name	NA 228		
CAS No.	351870-33-2		
EINECS No.	441-430-2		
Molecular Formula	C ₉ H ₁₂ O ₄ .2Na		
Synonyms	<ul style="list-style-type: none">• ENDO-NORBORNANE-2,3-DICARBOXYLIC ACID DISODIUM SALT• NORBORNANE-2,3-DICARBOXYLIC ACID DISODIUM SALT• CIS-ENDO-BICYCLO(2.2.1)HEPTANE-2,3-DICARBOXYLICACID,DISODIUMSALT		
TEST	SPECIFICATION	METHOD	
Appearance	White Powder	Visual	
Purity	> 96 %	By HPLC	
Melting Point	> 300 °C	Melting point apparatus (open capillary tube method)	
Fineness (Residue on 100 µm mesh)	< 1 %	Sieving	
Solubility at 20 °C	Solvent	Solubility (gm/100ml)	Visual
	Water	Slightly Soluble	

Product Applications:

1. NA 228 is used as a nucleating agent in polypropylene and high density polyethylene, including homopolymers and copolymers and in linear low density polyethylene polymers.
2. It is used in broad range of applications, including garden furniture, automotive parts, medical devices, cutlery and hangers etc.
3. It is compatible with filled PP systems including talc, calcium carbonate and glass filled polypropylene.

Product Benefits:

1. NA 228 offers fast polymer crystallization speed.
2. It has overriding nucleation power.
3. It has excellent performance at very low concentrations.

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 in polymers is 0.25 %. However individual dosage is depend on substrate and is application specification. Some reference dosage is as follows.

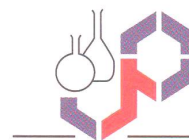
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Polymer Details	Suggested dosage
PP and HDPE (including homopolymers and impact copolymers)	< 0.25 %

Product Handling & safety:

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

Product Registration: NA 228 is listed under US FDA Inventory of Effective Food Contact Substance (FCS) Notifications number FCN No. 186.

Title:

Chapter:

Subchapter:

Part:

Subpart:

Section:

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 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.