

Technical Data Sheet

FUNCTIONAL CERAMAX PASTE

Ceramic Extreme Pressure Food Grade Grease Additive System

APPLICATION:

FUNCTIONAL Ceramax Paste is a NSF approved (147508, HX-1, HX-2) concentrated, pre-dispersed mixture of our FUNCTIONAL Ceramax boron nitride for easy processing and handling. Ceramax Paste uses size-optimized particles of boron nitride to provide an efficient and economical additive for use in heavy industrial and food processing grease. Ceramax Paste added to grease formulations provides lubrication and metal-to-metal protection under extreme loads and temperatures. Ceramax Paste can be used in a wide variety of grease applications where high load and extreme pressure is experienced, replacing graphite, MoS₂, or PTFE.

COMPOSITION:

Ceramax Paste is a non-toxic, non-conductive, and non-hazardous white boron nitride medium bodied paste.

Typical properties		
Appearance	White paste	
Odor	Odorless	
Lbs/ Gal	8.7	
Specific Gravity	1.04	

- Clean white non-conductive paste
- **Industrial lubricants and greases**

- **Food Processing grease**
- **Coatings and film lubricants**

TREATMENT LEVEL:

Ceramax paste can be used effectively at treatment levels as low as 5.0 percent.

HANDLING:

Any convenient technique may be used for blending; see the current Safety Data Sheet.



Nonfood Compounds **Program Listed** Category Codes: HX-1, HX-2 Registration No. 147508

This Technical Data Sheet and the Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose. Issued: 04/22/14

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FALEX V-Block TEST RESULTS			
<u>Sample</u>	Extreme Pressure (lbs)	<u>C.O.F.</u>	
Base oil	750	0.159	
Base oil / Graphite	1250	0.123	
Base oil / MoS2	4375	0.114	
Base oil / PTFE	4250	0.094	
Base oil / Ceramax	4500	0.105	

In a Group II un-additized base oil Ceramax outperformed all other solid additives

Four Ball EP Test Results			
	Wear Scar 40kg (mm)	Extreme Pressure Weld (kg)	
Base oil	1.060	126	
Base oil / Graphite	0.855	160	
Base oil / MoS2	0.805	250	
Base oil / PTFE	0.890	200	
Base oil / Ceramax	0.760	200	

In a Group II base oil Ceramax displayed the lowest wear scar of the solid additives.

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