

FUNCTIONAL CERAMAX PASTE

Ceramic Extreme Pressure Grease Additive System

APPLICATION:

FUNCTIONAL Ceramax Paste is a concentrated pre-dispersed mixture of our **FUNCTIONAL Ceramax Boron Nitride** for easy processing and handling. Ceramax paste uses an optimized bimodal particle size distribution of boron nitride to provide an efficient and economical product 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 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. Safe handling precautions are the same as those to be taken with other nuisance powders; see the current Material Safety Data Sheet.

This Technical Data Sheet and the Material 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: 1/10/07

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QMS certified to ISO 9001:2008 (with design)

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FALEX V-Block TEST RESULTS

<u>Sample</u>	<u>Extreme Pressure (lbs)</u>	<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

	<u>Wear Scar 40kg (mm)</u>	<u>Extreme Pressure Weld (kg)</u>
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 out of all the solid additives.

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