

A New Pre-Formed Polyamide Thickener for Grease



A Polyamide Alternative To Lithium Grease Thickeners

If you're currently using lithium-based grease thickeners, you might not be aware of the advantages of polyamides. Discover how polyamide technology from INVISTA, a trusted name in Nylon 6,6 and polypropylene, can enhance your specific application. Connect with our team to explore your options or request a sample. We're here to assist you!



Competitive Alternative for Lithium, Polyurea, and Calcium Sulfonate

- Outstanding thermo-oxidative stability
- Nearly universal compatibility
- Free from isocyanate and metal ions for an ashless solution



Cost Saving

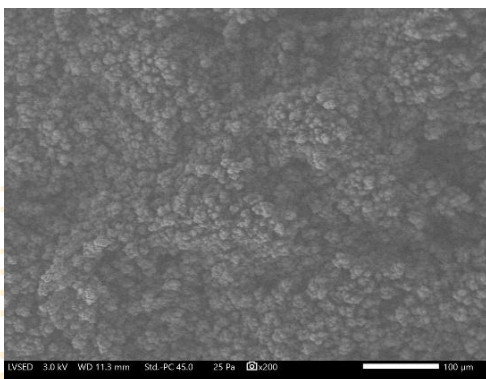
- Offers lower cost compared to rising lithium costs
- Requires fewer additives due to its inherent properties, reducing additional expenses



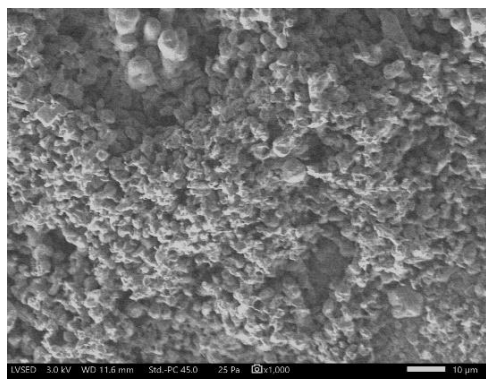
Value-in-Use

- Pre-formed nature delivers outstanding product consistency
- Mechanically stable grease for enhanced performance
- Time reduction potential compared to in-situ lithium grease

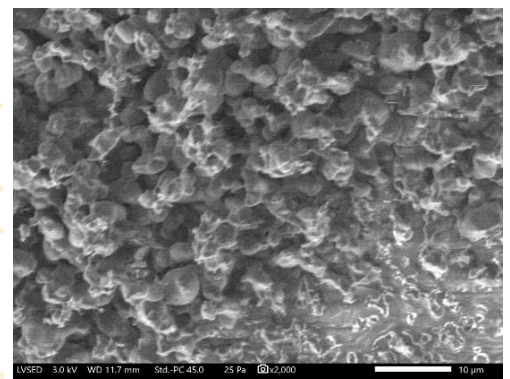
Polyamide Grease



200x



1000x



2000x

Near uniform incorporation without any additives

Comparative Performance

Properties	Test Method	Req.	Polyamide	Li Complex
Thickener loading (%)	-	-	13%	18%
NLGI rating	D217	2	2	2
Dropping Point Temp. (°C)	D2265	≥220	>310	305
Penetration P ₀ , P ₆₀	D217	265-295	256/279	282/295
*4 Ball wear (mm)	D2266	≤0.45	0.729	0.77
*Water washout (%)	D1264	≤2.75	4.5	10
Oil separation (%)	D1742	≤6	1.73	3.17
Oxidation Induction Time (min)	D5483		No Exotherm	4
Rust protection (rating)	D1743	Pass	Pass	Pass

*Tests performed with identical additive package

Pre-Formed Process



- Stable, dry powder
- Adjustable grease properties with loading %
- No impurities or EHS concerns
- Compatible with existing manufacturing equipment
- Reproducibility

Explore how polyamide ingredients from a market leader like INVISTA could benefit your operation, or simply connect with our team to discuss your options or request a sample.

Visit: us at <https://connect.invista.com/greasethickener>

Or contact Jonathan Davis, R&D Scientist & Technical Support Lead: Jonathan.Davis1@invista.com