STRIBECK ADDICHEM

PRODUCT DATASHEET

PU MIX™1806

Preform Polyurea Grease Thickener

PU-MIX™ 1806 is a preform formulated for the production of Polyurea greases. Formulators can benefit from its easy and cost-effective grease-making properties when utilizing PU-MIX™ 1806.

PU-MIX™ 1806 facilitates uncomplicated manufacturing of Polyurea grease and offers the following advantages:

- Easy to handle.
- Non-hazardous and environment-friendly.
- Simple and cost-effective production of polyurea grease.
- For NLGI grade 2 required thickener content is 8 -10% in SN 500, it may vary with base oils.
- Zero disposal hazardous materials.

Physio-chemical properties of PU MIX™ 1806

Tests	Test Method	Results
Appearance	*Visual*	**White Powder**
Active Content	*CTM**	**99.96%**
Particle Size	*D50*	**16.64**

Application: As a preform for making Polyurea grease.

Typical Treat Rate: 8-12% PU™ 1806 required for making NLGI grade 2 Polyurea grease.

Procedure for manufacturing Polyurea Grease NLGI Grade 2 with PU MIX™ 1806:

Sr. No.	Raw Materials	Concentration % (w/w)
a)	SN 500 (Base Oil)	90%
b)	PU MIX™ 1806	10%
	TOTAL	**100%**

1. Take all quantity of SN 500 or any other base oil.
2. Add all PU MIX™ 1806.
3. Ramp the temperature to 160^{0}C.
4. Maintain 160^{0}C under stirring for 150 minutes.
5. Stop the heating and cool down the batch with natural cooling process under stirring up to 70°C.
6. Homogenized or mill the grease when the temperature is less than 70^{0}C. Check the penetration and add extra SN 500 to get the desired penetration or NLGI grade

Properties of Polyurea grease made with PU MIX™ 1806

Tests	Test Method	Results
Appearance	*Visual*	**Beige Smooth**
Unwork Penetration	*ASTM D-217*	**265-295**
Dropping Point	*ASTM D-2265*	**>260^{0}C**
Four ball wear scar	*ASTM D-2266*	**0.75mm**
Four ball weld load	*ASTM D-2596*	**126 Kg (welding point)**

PACKING: 18 Kg craft paper bags.

STORAGE CONDITIONS: Store in a cool, dry place away from any direct source of heat and moisture. Maximum recommended storage temperature: 46^{0}C (115^{0}F).

SHELF LIFE: Best if used within 18 months from the date of manufacture.

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