

SULFOMIX™ 201 C is a preform formulated for the production of Calcium Sulfonate Complex greases. Formulators can benefit from its easy and cost-effective grease-making properties when utilizing SULFOMIX™ 201 C.

SULFOMIX™ 201 C facilitates uncomplicated manufacturing of Calcium Sulfonate grease and offers the following advantages:

- 🌊 Open Kettle Process
- 🌊 Reduces the necessary quantity of raw materials
- 🌊 Manufacturing involves lower cooking temperatures compared to the traditional process (maximum up to 135°C)
- 🌊 Decreased batch processing time for grease manufacturing (approximately 5 hours)
- 🌊 Attains outstanding antiwear, extreme pressure, and water resistance properties in the final greases

Physio-chemical properties of SULFOMIX™ 201 C

Tests	Test Method	Results
Appearance	<i>Visual</i>	Brown viscous liquid
Total Base Number		300 mg KOH/g (Typical)

Procedure for manufacturing Calcium Sulfonate Complex Grease NLGI Grade 2 with SULFOMIX™ 201 C:

Sr. No.	Raw Materials	Concentration % (w/w)
a)	12-hydroxy stearic acid	5%
b)	Calcium hydroxide (Lime)	0.5%
c)	SULFOMIX™ 201 C	30%
d)	Brightstock (ISO VG 460)	65%
e)	Water	2.35%
	TOTAL	102.85%

PROCEDURE-

1. Take 30% Brightstock (ISO VG 460) or (SN 500).
2. Add all SULFOMIX™ 201 C, 12-hydroxystearic acid, Lime and water to the kettle and ramp the heat to 85°C
3. Maintain 85°C-90°C under stirring for 90 minutes
4. Ramp the temperature to 135°C

5. Maintain 130°C-135°C for 30 minutes and immediately add all bright-stock to cool the grease (10-15% oil can be reserved for the penetration adjustment)
6. Mill the grease when the temperature is less than 80°C. Check the penetration and add the remaining (or additional quantity of) bright-stock to get the desired penetration or NLGI grade

Properties of Calcium Sulfonate Complex grease made with SULFOMIX™ 201 C

Tests	Test Method	Results
Appearance	<i>Visual</i>	Smooth Brown
Unwork Penetration	<i>ASTM D-217</i>	265-295
Dropping Point	<i>ASTM D-2265</i>	>300°C
Four ball wear scar	<i>ASTM D-2266</i>	0.45mm
Four ball weld load	<i>ASTM D-2596</i>	315 Kg (welding point)

NOTE- Gel formation may occur; ensure thorough mixing.

Application: As a preform for making Calcium Sulfonate Complex greases

Typical Treat Rate: 28-32 % SULFOMIX™ 201 C required for making NLGI grade 2 Calcium Sulfonate grease

PACKING: 220 KG open mouth HDPE drum.

STORAGE CONDITIONS: Store in a cool, dry place away from any direct source of heat and moisture. Maximum recommended storage temperature: 46°C (115°F). Stir the drum well before use.

SHELF LIFE: Best if used within 24 months from the date of manufacture.

Manufactured by:

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