

HEAT RESISTANT GREASE

Grease CIATIM - 221 GOST 9433-80

NLGI 1-2

Compositions

Synthetic oil solidified complex calcium soap with the addition of antioxidant additives.

Applications

CIATIM-221 grease lubricant is designed for greasing friction units and electric machines, control systems and devices with output speed up to 10000 min⁻¹ and associated surfaces in metal-metal and metal-rubber working in a vacuum at a residual

pressure 666.5 Pa at temperatures ranging from **minus 60** to **plus 150 °C**. Unit may overheat to **plus 180 °C**.

Main operation properties

- Insoluble in water, hygroscopic;
- Stable even when boiled;
- When moisture absorption is strengthened;
- Has a low anti-wear performance;
- Chemically resistant, inert to rubber and polymeric materials;

Indicators of physical and chemical properties

Index name	CIATIM-221	
Meets classifications NLGI DIN 51502	2 KSi 1/2 N-60	Test methods
Thickener	Ca	
Operating temperature, °C	- 60.. 150	
1. Product appearance	Homogeneous smooth ointment from light yellow to light brown	
2. Worked penetration (60 double strokes) at 25 °C, m×10 ⁻⁴ ,	280-360	GOST 5346
3. Dropping Point, °C, not lower	200	GOST 6793
4. Colloid stability, % separated oil, not more than	7,0	GOST 7142
5. Evaporation at 150 °C, 1 hour,% recovered oil, no more	2,0	GOST 9566
6. Tensile shear strength at 50 °C, Pa, not less than	120	GOST 7143
7. Corrosive influence on metals	Pass	GOST 9.080
8. Fraction mass of water, %, not more than	None	GOST 2477
9. . Mechanical impurities content, %, not more	None	GOST 6479
10. Fraction of free alkali in the recalculation of NaOH, %, not more than	0,08	GOST 6707
11. Efficient viscosity, Pa·sec - at (-50 °C) (at the average gradient of the strain rate of 10 s ⁻¹ , not more than)	800	GOST 7163

Shelf life 5 years from the day of manufacturing.