

## TRANSFORMER MINERAL OIL

### Agrinol GK transformer oil

**TS U 23.2-30802090-113:2009**

#### **Structure**

Is produced from sulphur paraffin crude oils by hydrocracking process. Contains ionol additive.

Meets the requirements of IEC 296 for PA class oils.

#### **Application area**

**Agrinol GK transformer oil** is used for electrical equipment of the highest electrical voltage classes.

Application temperature range: from **minus 35°C** to **100°C**.

#### **Key performance properties**

- good dielectric properties;
- excellent anti-oxidation stability.

### **Physical and chemical properties**

Index name	Norm	Test methods
1. Kinematic viscosity, mm <sup>2</sup> /s, not more than: at (+50)°C at (-30)°C	9 1200	GOST 33
2. Acid number, mg KOH/g, not more than	0,01	GOST 5985
3. Flash point (closed cup), °C, not lower than	135	GOST 6356
4. Pour point, °C, not higher than	- 45	GOST 20287/ASTM D 97
5. Corrosion on metals	Pass	GOST 2917
6. Sodium sample, optical density, not more than	0,4	GOST 19296 p. 5.2
7. Color, CNT units, not more than	1,0	GOST 20284/ASTM D1500
8. Mass fraction of mechanical impurities	None	GOST 6370
9. Mass fraction of water	None	GOST 1547
10. Oxidation stability, not more than - mass fraction of volatile low molecular weight acids, mg KOH/g - mass fraction of sediment in the oxidized oil, % - acid number after oxidation, mg KOH/g	0,04 0,015 0,1	GOST 981
11. Dielectric dissipation factor at 90°C, %, not more than	0,5	GOST 6581
12. Density at +20°C, kg/m <sup>3</sup> , not more than	0,895	GOST 3900

**Shelf life:** 5 years from the manufacturing date.