

Gazpromneft GK type 1, type 2

Gazpromneft GK type 1, type 2 – transformer oils developed from highly purified base components obtained by hydrocracking, isodeparaffinization and hydrotreating. The process of obtaining base components is intended to maximize the degree of purification to ensure excellent performance properties of Gazpromneft GK

Features/Advantages/Potential benefits

- Conforms to Russian and international quality standards → tested in independent accredited laboratories SGS-CSTC Standards Technical Services and All-Russia Scientific Research Institute for Oil Refining → product quality assurance
- High dielectric strength → oil resistance to electrical voltage → operation in high voltage equipment
- Excellent electrical insulating properties → minimum dielectric dissipation factor → reduced energy losses
- High stability against oxidation → use of base oils produced by hydroprocessing improves antioxidation properties → oil life is up to 25-30 years with observance of operating conditions
- Excellent viscosity-temperature properties → base components ensure oil pumpability at low ambient temperatures and maintain viscosity stability at high temperatures → multigrade use in various climatic zones
- Preservation of operating characteristics when mixed with other products (mixing only after prior consultation with Gazpromneft-Lubricants specialists) → ability of refilling during replacement and operation → saving oil costs

Application

- In potential, converter, measuring transformers, reactors, autotransformers and bushings as long-life electrical insulating material
- Recommended for use in electrical equipment of higher voltage classes up to 1150 kV
- In oil circuit breakers as arc suppression medium
- Recommended for application in objects of PJSC ROSSETI (Gazpromneft GK Mark 2)

Specifications	Gazpromneft GK type 2
IEC 60296:2020 Type A, fully inhibited high grade oils	✓
GOST R 54331-2011	✓

Gazpromneft Mark 2 Group oil has passed the compatibility test with most transformer oils of Russian and foreign production

Typical characteristics

Parameters	Method	Gazpromneft GK Type 1	Gazpromneft GK Type 2
Kinematic Viscosity, mm ² /s: - at 50°C - at 40°C - at -30°C	GOST 33	8,1 10,8 700	8,4 11,3 680
Density, kg/m ³ : - at 15°C - at 20°C	GOST R 51069 GOST 3900	836,6 833,2	838,2 834,7
Flash Point (COC), °C	GOST 6356	160	165
Pour point, °C	GOST 20287 method B or ASTM D 97	minus 40	minus 50
Total Acid Number, mg KOH/g	GOST 5985 or GOST 11362	< 0,01	< 0,01
Breakdown voltage, kV	GOST 6581 p. 4	> 30	> 30*
Dielectric dissipation factor at 90 °C, %	GOST 6581 p. 2	0,05	0,05
Oxidation stability (120°C, 500 h, 150 ml/h): - Total Acid Number after oxidation, mg KOH/g - Sludge, % weight - Dielectric dissipation factor at 90 °C, %	GOST R IEC 61125 method C or IEC 61125 method C	0,1 < 0,01 0,1	0,1 < 0,01 0,1
Oxidation stability (155°C, 14 h, 50 ml/min): - Low molecular weight volatile acids, mg KOH/g - Sludge, % weight - Total Acid Number after oxidation, mg KOH/g	GOST 981	0,01 0,004 0,05	0,01 0,004 0,05

*At the customer's request

Parameters	Method	Gazpromneft GK Type 2
Breakdown voltage, kV	GOST 6581 p. 4	70
Water content, mg/kg	GOST R IEC 60814	10
Purity class	GOST 17216	8

Certified

ISO 9001



ISO 14001



ISO 45001

