

Petroleum additives

Additives park Kaskad – 800**TY 0257-010-56491903-2003**

Application. A multifunctional additive park is intended for involvement in universal engine oils for the gasoline and diesel engines that permit the application of oils with the operating ability level SG/CD and SF/CC according to API. It possesses washing, neutralizing, dispersing, antioxidant and anticorrosion properties.

Composition. Composition of additives of various functional purposes.

Outward. Uniform dark brown liquid.

Kinematic viscosity at 100°C, mm ² /s, no more	350
Open-cup flash-point, °C, not lower	170
Base number, mg KOH per 1 g of additive, not less than	95

Packing. Steel 200 l barrels or rail-way tanks.

Application conditions.

Recommended concentrations: 4 - 8 % (depended on the oil group).

Additives park Kaskad – 800M**TY 0257-014-56491903-2004**

Application. A multifunctional additive park is intended for involvement in universal engine oils for the gasoline and diesel engines that permit the application of oils with the operating ability level CH-4/CG-4/CF-4/SL/SJ/SG according to API. It possesses washing, neutralizing, dispersing, antioxidant and anticorrosion properties.

Composition. Composition of additives of various functional purposes.

Outward. Uniform dark brown liquid.

Kinematic viscosity at 100°C, mm ² /s, no more	160
Open-cup flash-point, °C, not lower	170
Base number, mg KOH per 1 g of additive, not less than	80

Packing. Steel 200 l barrels or rail-way tanks.

Application conditions.

Recommended concentrations: 8 - 14 % (depended on the oil group).

Additives park Kaskad – 814**TY 0257-005-56491903-2002**

Application. A multifunctional additive park is intended for involvement in universal engine oils for the gasoline and diesel engines that permit the application of oils with the operating ability level SG/CD and SF/CC according to API. The package of additives is intended for oils of groups of quality V, G2, D in accordance with GOST 8581. It possesses washing, neutralizing, dispersing, antioxidant and anticorrosion properties.

Composition. Composition of additives of various functional purposes.

Outward. Uniform dark brown liquid.

Kinematic viscosity at 100°C, mm ² /s, no more	60 - 150
Open-cup flash-point, °C, not lower	180
Base number, mg KOH per 1 g of additive	260 - 295

Packing. Steel 200 l barrels or rail-way tanks.

Application conditions.

Recommended concentrations: 0,5 – 5,0 % (depended on the oil group).

Additives park Kaskad – M2302I**TY 0257-041-56491903-2006**

Application. A multifunctional additive park is intended for involvement in universal engine oils for the gasoline and diesel engines that permit the application of oils with the operating ability level SJ/CF, SG/CD, SF/CD and SF/CC according to API. It possesses washing, neutralizing, dispersing, antioxidant and anticorrosion properties.

Composition. Composition of additives of various functional purposes.

Outward. Uniform dark brown liquid.

Kinematic viscosity at 100°C, mm ² /s	150
Open-cup flash-point, °C, not lower	170
Base number, mg KOH per 1 g of additive, not less than	150

Packing. Steel 200 l barrels or rail-way tanks.

Application conditions.

Recommended concentrations: 5 - 6 % (depended on the oil group).

Wear-preventive additive for diesel oils Kaskad – 5

TY 0257-021-56491903-2004

Application. Anti-wear additive is intended for improvement of antiwear properties of low-sulfur diesel fuels. By efficiency of action additive corresponds to foreign analogs.

Composition. The additive is a composition carboxylic acids and their derivatives in a hydrocarbon solvent.

Outward. Uniform dark brown liquid.

Acid number, mg KOH per 1 g of additive, not less than	1000
Chilling point, °C, not higher than	Minus 10
Mass fraction of water, %, no more	traces
Close-cup flash-point, °C, not lower	62

Packing. Steel 200 l barrels or rail-way tanks.

Application conditions.

It is entered into fuel in concentration of 50-250 ppm depending on extent of desulphuration of fuel and availability in it of other additives.

The washing additive to gasoline Kaskad – 9

TY 0257-010-56491903-2003

Application. Multifunction detergent additive to gasoline is intended for improvement of the washing and anticorrosive properties of motor gasoline. Additive protects and cleans the inlet systems of the engine and a combustion tube, prevents formation of deposits on inlet valves, an intake line, injectors or the carburetor that provides decrease in emission of hydrocarbons and firm particles with exhaust gases and fuel saving and also protects the gasoline tank and a fuel system from corrosion and prevents frosting of the carburetor.

Composition. Solution of an alkenilsuccinimide of Minnikh modified by the basis in mineral oil.

Outward. Uniform dark brown liquid.

Model	Kaskad – 9	Kaskad – 9 TOC
Base number, mg KOH per 1 g of additive, not less than	8,5	7,0
Chilling point, °C, not higher than	Minus 10	Minus 15
Open-cup flash-point, °C, not lower	120	-
Close-cup flash-point, °C, not lower	-	62
Mass fraction of water, %, no more	0,1	0,1
Mass fraction of mechanical impurity, %, no more	0,05	0,05

Packing. Steel 200 l barrels or rail-way tanks.

Application conditions.

Recommended concentrations: 200 – 600 ppm.

Succinimide additive C-5A**TY 38101146-77****Application.** The ashless washing dispersing additive for lubricant oils.**Composition.** Concentrate of an alkenil succinimide in mineral oil.**Outward.** Uniform dark brown liquid.

mass fraction of active agent, %, not less than	40
Base number, mg KOH per 1 g of additive, not less than	20
Open-cup flash-point, °C, not lower	160
Mass fraction of nitrogen, %, no less than	1,4

Packing. Steel 200 l barrels or rail-way tanks.**Application conditions.**

Recommended concentrations: 1,5 – 3,5%.