

Foam formers series «Unikor-10»

Documents for products: Technical conditions / MSDS / SEE conclusion / Passport of quality



APPOINTMENT:

- for carrying out activities and works on complete cleaning and restoration of filtration properties of the near-bottom zone of the formation due to foaming of highly mineralized water-gas-condensate mixtures
- for the processes of construction, operation and repair of wells, extraction and transportation of oil and gas
- as components of process fluids and special mixtures in oil production

PRINCIPLE OF ACTION:

- a micellar layer is formed on the surface of liquid molecules, which allows to improve the rheological properties of formation liquids, reduce the interfacial surface tension and improve their removal to the surface

SCOPE OF APPLICATION:

- closed cycle systems at oil and gas production and processing facilities (oil and gas installations, production wells, pipelines, transportation systems, etc.).

Characteristics of the products of the line

Indicator	Name of products			Control method
	A200 Unicor-10	A300 Unicor -10	K200 Unicor -10	
Appearance	Liquid from transparent to light yellow color without inclusions		Liquid from light yellow to brown color without inclusions	item 6.2
Indicator of the concentration of hydrogen ions pH (5% water solution), units. pH	4,5-9,5		4,5-8,5	according to DSTU 2207.1
Density, g/cm ³	0,900-1,060		0,800-1,050	according to DSTU 7261
Freezing point, °C, not higher	0		- 15	according to DSTU 20287
Mass fraction of the active base, %	15,0-40,0	5,0-20,0	15,0-40,0	item 6.5
Kinematic viscosity at (20±1) °C, cSt	8-40			According to the methods developed in the laboratories

Composition and solubility of the products of the line

Name of products	Composition	Solubility				Working concentration, %
		HC	aromatic HC	alcohols	water	
Unicor-10 A200	Solution of a mixture of target, stabilizing and strengthening surfactants in solvents	-	-	+	+	0,025-0,2
Unicor-10 A300	Solution of a mixture of target, stabilizing and strengthening surfactants in solvents	-	-	+	+	0,1-0,3
Unicor-10 K200	Solution of a mixture of target, stabilizing and strengthening organic surfactants in organic solvents	+	+	+	-	0,2-1,0

Indicators of the value of surface tension when using products of the line

C, %	The studied surfactant, $\sigma \cdot 10^{-3}$, N/m		
	Unicor -10 A200	Unicor -10 A300	Unicor -10 K200
	Medium - water		Medium – gas condensate
0	71,8	71,8	30,2
0,025	28,31	-	-
0,05	27,3	-	-
0,1	26,4	28,22	-
0,2	26,3	27,4	27,21
0,3	26,08	26,3	26,11
0,5	-	26,28	24,07
1	-	26,14	22,04

Test of emulsifying properties in the «Water-Hydrocarbons» system

СПАР, 1,0%	Name of products		
	Unicor -10 A200	Unicor -10 A300	Unicor -10 K200
Separation time, min	10	30	2
Th nature of phase separation	full	full	full

This series is presented in the form of surfactants of different nature (organic and inorganic) and different molecular mechanism products (ionic and non-ionic).

Technological types of surfactants were used in the production of these products in various combinations.

The amount of active basis in the construction of the technical and economic model of the use of surfactants can be changed and balanced according to the wishes of the Customer.



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