

PERFLUOROMETHYLDECALIN (PFMD)



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC
QMS for production is certified: ISO 9001

CHEMICAL NAME:	PERFLUORO (METHYLDECALIN)
TRADE NAME:	Perfluoromethyldecalin
SYNONYMS:	GZHN Liquid, heptadecafluoro-1-trifluoromethyl-decahydro-naphthalene; Perfluoro-1; Perfluoro-1-methyldecaline
CHEMICAL FORMULA:	$C_{11}F_{20}$
CAS №:	306-92-3

PFMD is colorless, transparent liquid without smell. It is nontoxic, non-flammable, nonexplosive.



PHYSICAL-CHEMICAL PROPERTIES

PARAMETERS	UNITS	VALUE
Main substance content, not less than	%	93
Kinematic viscosity, not more at temperature: (20 + 0.2) °C minus (40 + 0.2) °C	mm ² /sec	3,6 100
Breakdown voltage, not less than	kV	40
Compatible with "formation water" and transformer oil	-	pass the test
Mass concentration of fluoride ions, no more than	mg / dm ³	100
Density at the temperature of 20°C	kg / m ³	1960
Freezing point, not higher	°C	-50
Boiling point, not lower than	°C	155
Average Molecular weight	-	512,086



Main application:

PFMD is an excellent dielectric at the temperature from minus 50 °C to plus 150 °C, in this capacity it can be used instead of transformer oil. It is used in the hydroprotection of open type submersible oil-accumulating electric motors operating at a pumped liquid temperature of up to 150 °C and a pressure of up to 25 MPa. Used when working in contact with formation water, having a pH = 6 - 9, containing oil, mechanical impurities and surfactants.



Package:

PFMD is filled in polyethylene cans for chemical products with a capacity of 5 dm³ or other sealed unbreakable containers with a capacity of up to 10 dm³. It is allowed to seal the covers of the polyethylene container with the product of the FUM brand 2. It is allowed to fill the liquid into the container of the consumer that meets the requirements.



Transportation and storage:

PFMD is transported by any transport type in covered vehicles. PFMD should be stored in the supplier's packaging in a closed room at a temperature from minus 50 °C to 50 °C. The guaranteed storage time is 3 years from the date of manufacture.