Liquid fluorocarbons:

Inert heat transfer agents, dielectrics and lubricants

HaloPolymer

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JOINT STOCK COMPANY
«HaloPolymer»

Unique complex of properties - Wide range of application

- ✓ Not inflammables
- ✓ Absence of corrosive activeness
- ✓ Chemical and biological inertness
- ✓ Insoluble in water and most of organic solvents
- ✓ High dielectric properties
- ✓ High thermal stability
- ✓ Not toxics

- ○ Mining industry
- ○ Nuclear energetics
- ○ Electronics and electrotechnics
- ○ Shipbuilding and subsea works
- ○ Petroleum and chemical industry
- ○ Aviation and space technologies




At present time our company produce several types of liquid fluorocarbons, which are presented in this brochure.

We have long time experience in production of fluoroorganic substances and can guarantee high and stable quality of our products.

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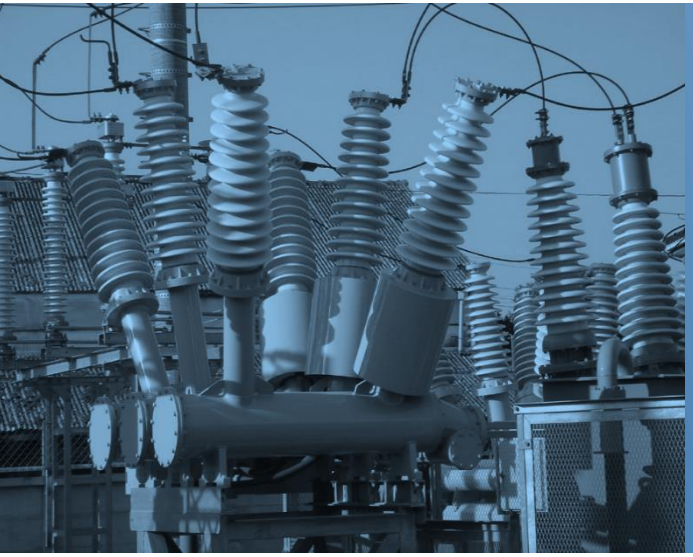
Fluid KARBOHAL

Synonyms: Perfluoro-1,3-dimethylcyclohexane, PFDMCH
CAS: 335-27-3
Chemical formula: C_8F_{16}

Description: Colorless transparent liquid. Not toxic, biologically and chemically inert substance. Not flammable and not explosive. Is insoluble in most organic solvents. Have high chemical resistance to effect of acids, alkali, oxygen and chlorine.

Application: Due to combination dielectric properties with low freezing temperature and high thermal stability this product can be used as liquid dielectric or as heat transfer agent in high voltage electrical equipment or in radioelectronic equipment.



Parameters	Units	Value
Mass content of base material (min)	%	99*
Breakdown voltage	kV	45
Boiling point	°C	102
Freezing point	°C	-70
Thermal stability	°C	440
Density	g/cm^3	1,85
Dynamic viscosity	mPa*s	1,92
Kinematic viscosity	cSt	1,1

** By individual order can be provided purity of the product more than 99%.*

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Fluid PFMCH

Synonyms: Perfluoro(methylcyclohexane), Undecafluoro(trifluoromethyl)cyclohexane, R-350
CAS: 355-02-2
Chemical formula: C7F14

Description: Colorless transparent liquid. Not toxic, biologically and chemically inert substance. Not flammable and not explosive. Is insoluble in most organic solvents. Have high chemical resistance to effect of acids, alkali, oxygen and chlorine.

Application: Due to combination dielectric properties with low freezing temperature and high thermal stability this product can be used as liquid dielectric or as heat transfer agent in high voltage electrical equipment or in radioelectronic equipment. Also can be used as replacement of HFC and CFC solvents in different applications.

Parameters	Units	Value
Mass content of base material (min)	%	99*
Breakdown voltage	kV	23
Boiling point	°C	76
Freezing point	°C	-30
Thermal stability	°C	500
Density	g/cm^3	1,79
Kinematic viscosity	cSt	3,1

** By individual order can be provided purity of the product more than 99%.*

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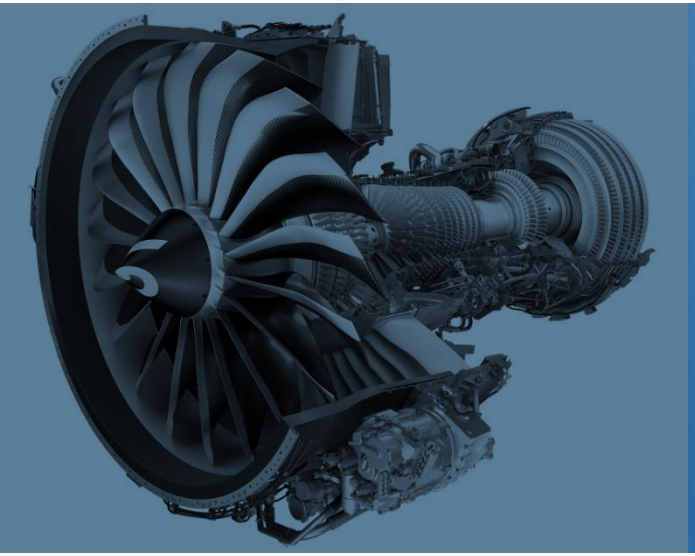
Lubricating fluid UPI

Synonyms: Perfluorinated organic fluid UPI
CAS: Not applicable
Chemical formula: Not applicable

Description: Oily, colorless, homogeneous liquid. Is a mixture of perfluorinated alkanes and cycloalkanes with different molecular weight. Not toxic, biologically and chemically inert substance. Not flammable and not explosive. Is insoluble in most organic solvents. Have high chemical resistance to effect of acids, alkali, oxygen and chlorine. Also have dielectric properties.

Application: Used for lubrication of different mechanical units, which are working in contact with corrosive mediums, in conditions of radiation effect or in extreme weather conditions.



Parameters	Units	Value
Breakdown voltage	kV	25
Boiling point	°C	more 300
Thermal stability	°C	400
Density	g/cm^3	2,0
Kinematic viscosity		
At 20 °C	cSt	3000-6000
At 70 °C	cSt	At least 23

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Contact information

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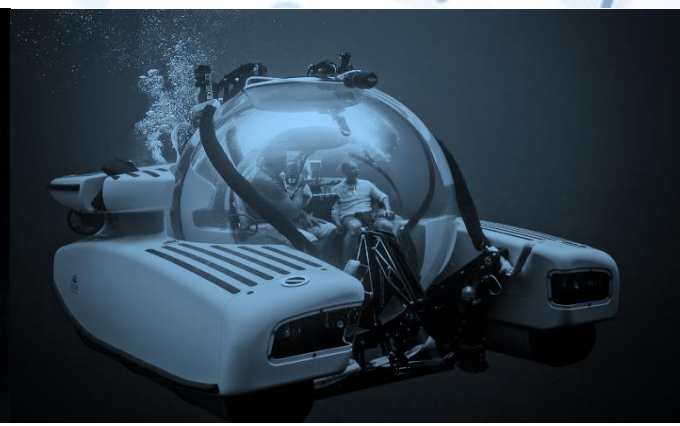

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