

**CERTIFICATE No. 23-2021****POLYETHYLENE
TU 2211-091-05766563-2012**

Brand	NMPE-2 (low-molecular polyethylene), grade 1	OKPD2 Code	20.16.10.190
Batch No.	23	Net weight	6350.00 kg
Date of manufacture	November 15, 2021		
Date of sampling	November 15, 2021		
Test date	November 15, 2021		
Designation of the regulatory documentation (RD), according to which the sample was taken	TU 2211-091-05766563-2012, Item 4.2–4.3, GOST 16337, Item 2.2		

Item No.	Indicator	RD for test method	Norm		Analysis result
			Grade 1	Grade 2	
1	External appearance	TU 2211-091-05766563-2012, Item 5.1	Ointment- or wax-like mass mixed with possible presence of liquid fraction of light gray or brown color		ointment-like mass, light gray color with inclusions
2	Dynamic viscosity of melt, mPa*s	TU 2211-091-05766563-2012	from 20 to 400		79
3	Mass fraction of ash, %	TU 2211-091-05766563-2012, Item 5.3	not more than 0.1		0.09
4	Drop point, °C	TU 2211-091-05766563-2012, Item 5.4	from 55 to 100		66
5	Mass fraction of volatile substances, %	TU 2211-091-05766563-2012, Item 5.5	not more than 1.0	not more than 2.0	0.83

Conclusion: the product complies with TU 2211-091-05766563-2012**Not subject to mandatory certification.**

The products are manufactured in accordance with the Management systems certified for compliance with the specifications of: ISO 9001:2015 Certificate No. 31100600 QM15, ISO 50001:2018 Certificate No. 31100600 EMS18, ISO 14001:2015 Certificate No. 31100600 UM15, ISO 45001:2018 Certificate No. 31100600 OHS18.

Scope of application: As a component of compositions used in rubber and technical industry, construction, and other areas.

Characteristics of fire and explosion hazard: Low-molecular polyethylene is combustible as per GOST 12.1.044.

When heating up to a temperature above 100 °C and in case of the contact with open fire, it burns with sooting flame with the formation of a melt and release of gaseous products of thermal destruction, which contain organic acids, formaldehyde, acetaldehyde, carbon oxide.

The low-molecular polyethylene fire point is 340 °C, its autogenous ignition temperature is within 349–422 °C. The low-molecular polyethylene decomposition temperature is 440–480 °C. Concentration limits of flame propagation: upper 20 g/m³, lower 41 g/m³. The combustion product toxicity indicator is 10–40 g/m³.

When handling with low-molecular polyethylene, the accumulation of static electricity charges is possible.

Transportation rules: Transported by all types of transport in sheltered vehicles in accordance with the rules of cargo transportation, which are in force in this type of transport.

Storage rules: Store in closed room while avoiding the exposure of direct sunlight at a distance of not less than 1 m from heating devices. It is allowed to store in a package at open air under a shelter for not more than three months from the date of manufacture. In case of the packing of low-molecular polyethylene in bags, pallets as per GOST 9078 or GOST 24597 are used for stacking.

Neutralization, disposal, and burial of wastes: Wastes that are inapplicable for recycling do not require neutralizing, are subject to removal to places agreed with authorities of the Ministry of Extraordinary Situations of the Russian Federation and Federal Service for Supervision of Consumers Protection and Welfare (Division of the Federal Service for Supervision of Consumers Protection and Welfare).

Warranty period of storage: 2 year from the date of manufacture.

Chemical Analysis Laboratory Assistant of 5th
Category (Power of Attorney No. 33/21 dated
January 1, 2021)

Seal:
PUBLIC JOINT STOCK COMPANY
PUBLIC JOINT STOCK COMPANY
Quality Department
Quality Division
7/2
"UFAORGSINTEZ"
UFAORGSINTEZ

Stamp here

Signature

T.Yu. Matveeva

Date of certificate documentation December 21, 2021

Signature