

Polycem GIPS

Manufacturer
АО «НПО «Polycell» (joint stock company, Russia)
TS 2458-055-97457491-2012



Polycem GIPS is a two-component system, consisting of a base – high strength gypsum cement with reinforcing additives and retarder.

Product Characteristics

	Water-solid ratio	
	0,45	0,50
Solution density, kg/m ³	1780	1750
Spreadability, mm, not less than	175	210
Thickening time at a temperature of 4 °C, minutes	130-140	155-160
Water separation, ml	Absent	
Strength of plugging stone at a temperature of 4 °C in 1 day, MPa not less than		
- bending	4,9	4,7
- compression	14,2	9,6

Treatment

Lost circulation control technology using bridging material Polycem GIPS consists in preparation of a mixing fluid with the use of a retarder additive at a rate of 3.5-5 kg/m³, depending on the required thickening time. Preparation of the solution Polycem GIPS is carried out in a blender tank with water-solid ratio 0,7.

After complete mixing, the density of the solution should be in the range of 1500-1550 kg/m³. Further, the solution is pumped through the pipe space to the required interval at equilibrium. Then raise the tool to a safe depth and begin washing in a volume of 2-3 m³, close the well for 3-4 hours to solidify the mixture. At the end of the technical sludge, the wellbore is flushed and pressurized for the pressure expected during further construction and continues drilling.

Properties

Polycem GIPS used as a plugging material in lost circulation control with high intensity in low-temperature intervals and continuous permafrost zones when drilling and repairing oil and gas wells. To eliminate leakage of columns and restore the tightness of cement stone, as well as water shutoff under certain conditions.

Национальный Буровой Сервис



Packaging

Polycem GIPS is supplied in polypropylene bags with polyethylene inserts of 25 kg each.

Storage

Gel-forming reagent is stored in warehouses. It is allowed to store the product under a canopy or on a planned site, protected from mechanical damage, precipitation, soil moisture and direct sunlight at a temperature of no higher than 35 ° C.

The warranty period of storage is 12 months from the date of manufacture, if the consumer observes the requirements of transportation and storage.

Hazard Class

Low-risk product. The hazard class is 4.