

**General description:** Desil Al is a colloidal solution with an additive Al, which differs in its composition and properties from classic colloidal solutions of alkaline silicates, designated as water glasses. Desil Al is a colloidal solution, framework of its manometrical particles is very similar to zeolitic structures. Atoms of aluminium create local negative charge which locates the Na ion more firmly. Thus the difference from classic water glass. It has reduced coagulating threshold and other rigidity and flexibility characteristics of originated binding frameworks at higher temperatures.

**Qualitative parameters of the product:**

Parameters	Units	Desil Al 0,6	Desil Al 0,7	Desil Al
Density (20°C)	kg/m <sup>3</sup>	1530 - 1540	1530 - 1550	1470 - 1570
Content of Al	%	0,5 - 0,8	0,6 - 0,9	0,1 - 2,0
Coagulation threshold (% Na <sub>2</sub> O)	%	5,6 - 5,8	5,5 - 5,7	-
Viscosity (20°C)	mPa.s	200 - 600	200 - 600	-
Molar ratio SiO <sub>2</sub> /Na <sub>2</sub> O	-	-	-	1,60 - 2,20

**Packing:** Desil Al is packed in 200 l PE barrels, 1000 l PE containers, in bulk in railway tanks or tank trucks or steel or PE package provided by customer from 50 l and higher.

**Applications:** Bonding agent in foundry industry, waste processing, production of detergents and cleaning agents, production of thermal insulating materials. According to the customer's requirements, it is possible to adjust the value of coagulating threshold and the value of density, alternatively viscosity.

**Storage:** Store in an original, undamaged and well-closed package or large scale tanks.

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