

## Sodium water glass

**General description:** Sodium water glass is a pure or slightly turbid viscose liquid of greyish or pinkish colour, of alkaline reaction, freely mixable with water.

### Qualitative parameters of the product:

Type	Density (kg/m <sup>3</sup> )	Molar ratio SiO <sub>2</sub> /Na <sub>2</sub> O	Na <sub>2</sub> O Content (%)	SiO <sub>2</sub> Content (%)	Solids (% Na <sub>2</sub> O + % SiO <sub>2</sub> )
36° – 38° Bé	1328 - 1352	3,2 – 3,5	7,9 - 8,2	24,5 – 27,8	32,4 – 36,0
38° – 40° Bé	1353 – 1378	3,2 – 3,5	8,2 – 8,6	25,4 – 29,2	33,6 – 37,8
40° – 42° Bé	1380 – 1409	3,2 – 3,5	8,8 – 9,2	27,3 – 31,2	36,1 – 40,4
44° – 46° Bé	1435 – 1467	2,6 – 2,8	11,7 – 12,2	29,5 – 33,1	41,2 – 45,3
48° – 50° Bé	1494 – 1525	2,2 – 2,4	13,2 – 14,2	28,1 – 33,0	41,3 – 47,2
50° – 52° Bé	1525 – 1557	2,3 – 2,5	13,5 – 14,5	30,1 – 35,1	43,6 – 49,6
52° – 55° Bé	1558 - 1610	1,8 – 2,3	15,5 – 16,4	27,0 – 36,5	42,5 – 52,9
VS 2,0	1490 – 1540	1,9 – 2,1	-	-	39,7 – 45,5
VS 1,6	1560 - 1570	1,55 – 1,75	-	-	44-46

**Packing:** Sodium water glass can be packed in to the steel or plastic barrels (200 l), in bulk, in tank cars or tank trucks. Random packing of a customer from 50 l and higher.

**Applications:** For the production of alkaline silicates used in degreasing agents, detergents and disinfectants, as foundry raw material for the production of molds, as an ingredient used in firestopping coatings and fire-resistant building materials, as a binder in different adhesives and bonding agents, so-called chemically hardened mixtures and for surface treatment of paper, wood and textile.

**Storage:** Transport and store at the temperature above 0°C.

**Protection and labour safety:** According to act nr. 356/2003 is the product classified as **irritable** with risk sentences: **R 38** – irritates skin **R 41** – Danger of severe eye damage. While manipulating it is necessary to protect skin using protective gloves, face shield, working clothes, rubber apron and footwear.

**Product disposal:** Precipitate using hydrochlorid acid at the occurrence of silicic acid in solid form, take away to appropriate dumping ground.

**Packaging disposal:** Take away steel or plastic barrels to a junk.



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