Nouryon

Alkylglucosides

Outstanding hydrotropes for alkaline cleaning. Mild and more sustainable chemistry.

Environmentally adapted products

Nonionic surfactants have historically been synonymous with alkyl alkoxylates. Today another group of nonionic surfactants, the alkylglucosides, have created a growing interest, not only because of their more sustainable raw material sources and also their very special performance in cleaning applications.

The most obvious difference is that for alkoxylates a cloud point can be defined, but for alkyl glucosides it is mostly not possible to find any cloud point. This phenomenon influences the solubility of the surfactant and one of the greatest advantages with alkylglucosides is the good solubility in water containing high electrolytes. Alkylglucosides can be combined with all other types of surfactants and synergistic effects can then often be found.

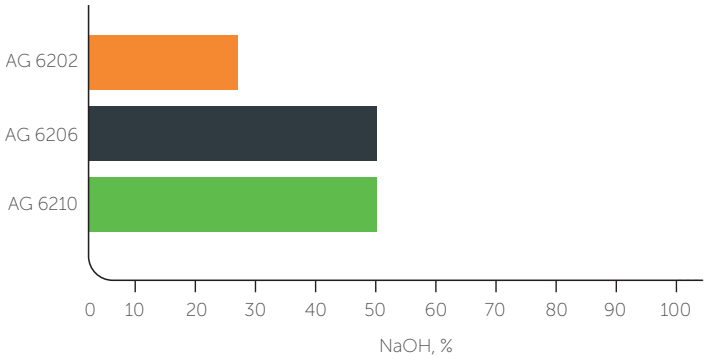
AG 6202, AG 6206 and AG 6210 give a low environmental impact as they are readily biodegradable and the aquatic toxicity is much lower than for the general alkyl alkoxylates.

Product	Key features
AG 6202	• Low foaming alkylglucoside • Hydrotropic effect • Wetting properties • Soluble in caustic • Based on a short chained branched alcohol • 65% active matter • Readily biodegradable
AG 6206	• Low foaming alkylglucoside • Hydrotropic effect • Very good solubility in high caustic • Based on a short chained alcohol • 75% active matter • Readily biodegradable
AG 6210	• Medium to high foaming alkylglucoside • Very good wetting • Very good solubility in high caustic • Based on a blend of short chained alcohol • 61% active matter

Applications

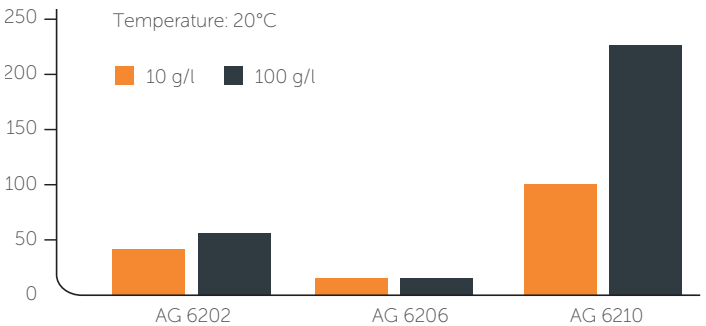
- Low toxic applications
- CIP (Cleaning In Place)
- High alkaline cleaning
- Machine dishwashing
- All purpose cleaning
- PET-cleaning (no stress cracking)
- Demulsification
- Vehicle cleaning

Solubility of glucosides in NaOH



Foaming

Foam height immediately, mm



Environmental data

Aquatic toxicity	AG 6202	AG 6206	AG 6210*
LC_{50} (96 h), Fish	>300mg/l	>400 mg/l	1-10mg/l
EC_{50} (48 h), Daphnia	>100mg/l	>400 mg/l	1-10 mg/l
EC_{50} (72 h), Algae	>100mg/l	>100 mg/l	1-10 mg/l

Biodegradability	AG 6202	AG 6206	AG 6210
According to closed bottle test, OECD guidelines No 301D	>90%	>60%	>60%

* = refers to the most toxic component in the product preparation

AG 6202, AG 6202 and AG 6210 are classified as readily biodegradable.

Water based alkaline cleaner

Ingredients, % w/w	A	B	C	D	E	F	G	H	I
Berol 260	5	5	5	5	-	-	-	-	5
Berol 266	-	-	-	-	5	5	5	5	-
Na_3 NTA	7	7	-	-	7	7	-	-	-
TKPP	-	-	5	5	-	-	5	5	5
Na-metasilicate $5H_2O$	-	-	2	2	-	-	2	2	2
AG 6202	-	11,5	-	9,5	-	7	-	6	-
AG 6206	6,5	-	6	-	4,5	-	4,5	-	-
AG 6210	-	-	-	-	-	-	-	-	15
Water	81,5	76,5	82	78,5	83,5	81	83,5	82	73
pH (10% solution)	~10	~10	~11	~11	~10	~10	~11	~11	~11

Contact us directly for detailed product information and sample request at cleaning@nouryon.com

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About Nouryon

We are a global specialty chemicals leader. Markets worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, food, pharmaceuticals, and personal care items. Building on our nearly 400-year history, the dedication of our 10,000 employees, and our shared commitment to business growth, strong financial performance, safety, sustainability, and innovation, we have established a world-class business and built strong partnerships with our customers. We operate in over 80 countries around the world and our portfolio of industry-leading brands includes Eka, Dissolvine, Trigonox, and Berol.

For more information visit **surfacechemistry.nouryon.com**

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