Cleaning & Biocides

AG 6202, AG 6206, AG 6210

Alkylglucosides

AKZO NOBEL

Environmentally adapted products

Nonionic surfactants have more or less been synonymous with alkyl alkoxylates. Today another group of nonionic surfactants, the alkylglucosides, have created a growing interest, not only because of environmental considerations but also because of their very special performance.

The most obvious difference is that for alkoxylates a cloud point can be defined, but for 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.

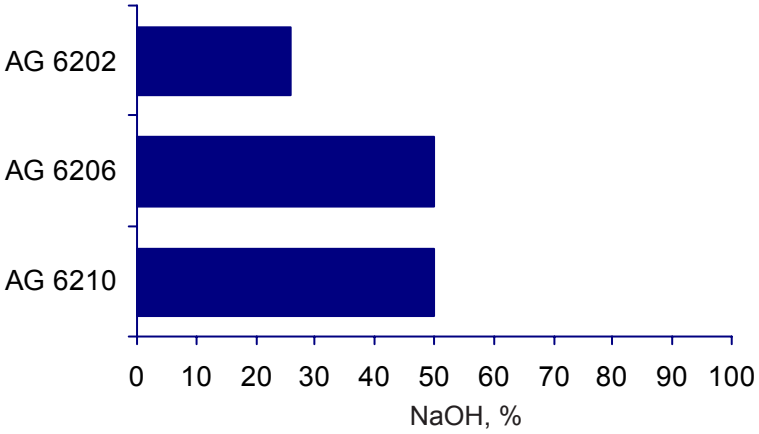
Alkylglucosides can be combined with all other types of surfactants and synergistic effects can then often be found.

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 general alkyl alkoxylates.

Applications

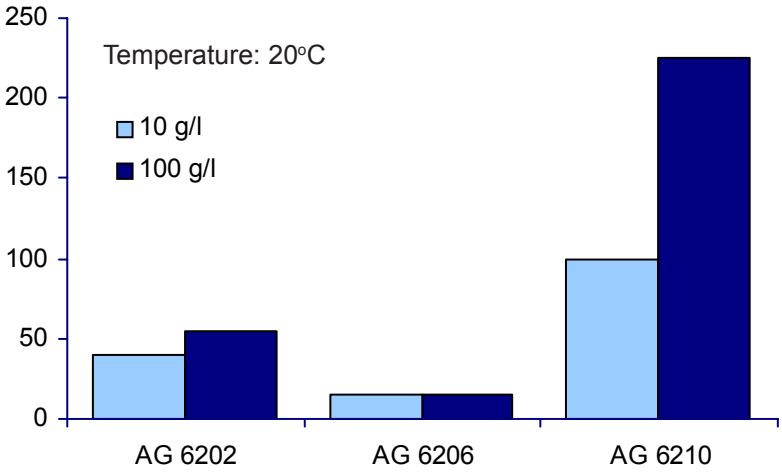
- Low toxic applications
- CIP (Cleaning In Place)
- High alkaline cleaning
- Machine dishwashing
- All purpose cleaning
- PET-cleaning (no stress cracking)
- Deemulsification
- Vehicle cleaning

Solubility of glucosides in NaOH



Foaming

Foam height immediately, mm



Formulation:

1%	Surfactant
20%	NaOH
rest	Water

AG 6202

- Low foaming alkylglucoside
- Hydrotropic effect
- Wetting properties
- Soluble in caustic
- Based on a short chained branched alcohol
- 65% active matter

AG 6206

- Low foaming alkylglucoside
- Hydrotropic effect
- Very good solubility in high caustic
- Based on a short chained alcohol
- 75% active matter

AG 6210

- Medium to high foaming alkylglucoside
- Very good wetting
- Very good solubility in high caustic
- Based on a blend of short chained alcohols
- 61% active matter

Environmental data

Aquatic toxicity

	AG 6202	***AG 6206***
LC_{50} (96 h), Rainbow trout	>300 mg/l	>400 mg/l
EC_{50} (48 h), Daphnia	>100 mg/l	>400 mg/l
EC_{50} (72 h), Algea	>100 mg/l	>100 mg/l

Biodegradability

Primary biodegradation	>90%	>90%
According to closed bottled test, OECD guidelines No 301D	>90%	>60%

Both AG 6202 and AG 6206 are classified as readily biodegradable.

AG 6210 has not yet been tested, but is estimated to have a similar environmental profile.

Water based alkaline cleaner

	A %	**B %**	**C %**	**D %**	**E %**	**F %**	**G %**	**H %**	**I %**
Berol 260	5	5	5	5	-	-	-	-	5
Berol 266	-	-	-	-	5	5	5	5	-
Na_3NTA	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

The formulations recommended in the brochure are to be seen as guidelines. Akzo Nobel strongly recommends the customer to check fitness for purpose in each individual case.

For additional information and assistance,
please contact your local Akzo Nobel Sales Representative
or consult our website at

www.surfactants.akzonobel.com

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