Foam Control Agents

Bisomer FCC types from GEO Specialty Chemicals

Their chemistry

- ✓ Based on polyalkylene glycol chemistry
- ✓ Most products are label-free, non-toxic and non-hazardous for the environment
- ✓ Slowly biodegradable into simple glycols

Their usage

- ✓ In aqueous applications only
- ✓ At an application temperature higher than the cloud point
- ✓ In ppm levels due to high efficiency

Their function

- ✓ Reducing air in aqueous processes and slurries
- ✓ Preventing surface foaming
- ✓ Minimizing defects caused by bubbles

Bisomer	Pulp & paper	Food processing	Boiler water additives	Sugar beet processing	Fermen-tation	Cleaners & detergents	Cloud Point [°C]*	Kosher	Halal	FDA
FCC P23	✓					✓	17	✓	⏳‡	✗
FCC P22	✓	✓					12	✓	⏳‡	✗
FCC P12	✓	✓	✓			✓	12	✓	✓	✗ I, II
FCC P18	✓	✓	✓			✓	20**	✓	⏳‡	✗ I, II
FCC 72		✓		✓			< 0	✓	✓	✗ I
FCA 51			✓				51	✓	✓	✓
FCC 92			✓	✓			43	✓	✓	✗ I, II
FCC 93				✓			40	✓	✓	✗ I
FCC 94				✓			36	✓	✓	✗ I
FCC 102				✓			27	⏳‡	⏳‡	✗ I
FCC 172				✓		✓	37	✓	✓	✓
FCC 174				✓		✓	51	✓	✓	✓
FCC 252				✓		✓	28	✓	✓	✓
FCC 111				✓	✓		21	✓	⏳‡	✗ I
FCC 30					✓		20	✓	✓	✓
FCC D21						✓	16**	✓	⏳‡	✗
FCC F120						✓	28**	✓	✓	✗
FCC L6200						✓	34	✓	⏳‡	✓
FCC L8100						✓	19	✓	✓	✓
FCC L9200						✓	21	✓	✓	✓

* Cloud point measured as 1 wt.% aqueous solution (ASTM D2024/DIN EN 1890 Method A).
** Cloud point measured as 16.6 wt.% in 25% butyl diglycol ether aqueous solution (DIN EN 1890 Method E).
‡ Not listed in current certificate but expected to be included in next official update.
I Meets the requirements of FDA 21 CFR 173.340 Secondary Direct Food Additives Permitted in Food for Human Consumption – Defoaming Agents.
II Keller & Heckman opinion that product can be used in specific applications (Keller & Heckman LLP, 1001 G Street, NW, Suite 500 West, Washington DC, 20001, USA)

Distributed by
IMPAG AG
Räffelstrasse 12
8045 Zurich
Switzerland

Phone: +41 43 499 25 00
Fax: +41 43 499 25 01
E-Mail: info@impag.ch
Web: www.impag.ch

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