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## PROCESS AIDS

### PROAID® AC 18E -Low Coefficient of Friction-

#### DESCRIPTION:

PROAID AC 18E is an unsaturated erucamide primarily used as a surface lubricant in rubber articles and as an antiblock/slip agent in polyolefin films (LDPE and PP). In rubber it will bloom at low loadings (1-2 phr in NBR and CR; 3-5 phr in EPDM) from most elastomers creating a low coefficient of friction on the surface of molded goods. Proaid AC 18E will provide a non-oily, non-greasy lubricating film on exposed rubber surfaces. AC 18E is slowest out of EPDM (allow 72 hrs for bloom to form in EPDM). This material also acts as a process aid in all polymers, particularly as a mold release aid.

#### TYPICAL PROPERTIES:

Appearance .....	free flowing white beads
Specific Gravity .....	0.87
Melt Point .....	80°C
Acid Value .....	0.5
Color, Gardner .....	1.0
Iodine Value.....	77

#### APPLICATIONS:

Proaid AC 18E's surface lubrication effect can be used to improve a rubber's resistance to sliding abrasion, prevent galling of parts to dry metal surfaces, ease installation of rubber parts by letting them "slip" into position, and reduce sticking together of cured parts.

Suggested Loadings: 0.25 - 2.00 phr for reduced surface tack on cured parts. 3.00 - 5.00 phr for low coefficient of friction surface and improved abrasion wear. Add up to 10 phr for a long-lasting bloom that is self-restoring.

Due to the unsaturation in the erucamide, Proaid AC 18E may possibly have a greater reduction effect on the rubber's state-of-cure than Proaid LCF (our other low coefficient-of-friction additive). AC 18E will bloom clearer than Akrochem's Proaid LCF. Proaid AC 18E has FDA listing in CFR 21 Sections 175.105, 175.300, 176.180, 177.1200, 177.1210, 177.1350, 177.1400, and 178.3860.

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