



THE HANSON GROUP, LLC
GOOD PEOPLE, GREAT SCIENCE

TECHNICAL DATA SHEET

THG FM 8000

1. General

THG FM 8000 can be used as a lubricant, viscosity modifier, mold release agent, softener, antistat, and pigment dispersant agent. THG-FM 8000 can also be used to make chemical intermediates such as fatty acid esters, and as grain refining agents in inks. THG-FM 8000 is most suitable for engineering plastics like ABS, PC, PET, PTB, and UHMWPE, or for use in high-temp (>500 C) extrusion processes.

2. Physical Data

<u>TEST</u>	<u>SPECIFICATION</u>
Completeness and Color of Solution	Pass
pH (5% aqueous @ 25C) : 8.73 lb/gal @ 25°C	4.5 min – 7.5 max
Color Pt-Co (25% aqueous @ 25C)	30 max
Water Content wt%	1.0 max
Dioxane ppm	10 max

Meets NF Requirements

3. Usage and Features

THG-FM 8000 possesses lubricity, humectant properties and can be used for a wide variety of applications:

- Solvent / Humectant / Plasticizer - wood, cellulose films, inks, paints, coatings, adhesives, sealants.
- Release agent / Lubricant - Mold release agent for rubber and thermoplastic processing, lubricant formulations, metal working fluids
- Binder for ceramics
- Component of auxiliaries for fiber, textile, and leather processing.
- Heat transfer medium in formulations.
- Fillers and pigment dispersion aid in the masterbatching process.

Disclaimer

The technical data presented here resulted from our study to the best of our abilities and are presented in good faith but without warranty. We advise to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you based on our technical advice are beyond our control and, therefore, entirely your own responsibility.



THE HANSON GROUP, LLC
GOOD PEOPLE, GREAT SCIENCE

Performance data in PC and PC/ABS

4.				
Property	Standard	Unit	PCABS	PCABS+1%FM8000
HDT	ASTM D648	°C	111	104
Flexural Modulus	ASTM D790	MPa	85	88
Flexural Strength	ASTM D790	MPa	2340	2360
Vicat	ASTM D1525	°C	142	138
Melt Flow Rate	ASTM D1238	g/10min	9.8	11.3
Charpy Impact Strength	ASTM D6110	J/m	482	479
Spiral Flow Length	100MPa	cm	46	59

Twin screw extrusion temperature: 240°C; Injection temperature: 250°C

Additional Performance Data

Additive	Percent Transmission		Percent Haze		Percent Clarity	
PFAS process aid	600ppm 93.5%	900ppm 93.1%	600ppm 32.2%	900ppm 41.8%	600ppm 85.1%	900ppm 66.1%
THG-FM-110	600ppm 94.2%	900ppm 94.1%	600ppm 25.3%	900ppm 14.1%	600ppm 96.1%	900ppm 97.2%
THG-FM8000	600ppm 94.6%	900ppm 94.6%	600ppm 25.1%	900ppm 14.3%	600ppm 95.8%	900ppm 97.8%

Disclaimer

The technical data presented here resulted from our study to the best of our abilities and are presented in good faith but without warranty. We advise to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you based on our technical advice are beyond our control and, therefore, entirely your own responsibility.