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HICHAIN™ ALCOHOLS

Based on ACCESS Technologies' proprietary technology, HICHAIN alcohols are fully saturated, long chain, linear primary alcohols. Compared to other commercially available synthetic alcohols, HICHAIN alcohols are of higher molecular weight, greater crystallinity, and higher purity primary alcohol concentration.

Linear alcohols are traditionally limited to C30 and lower, while HICHAIN alcohols are available with average carbon chain lengths up to C50. A further attractive feature of the HICHAIN alcohols is the relatively narrow 1.08 polydispersity (M_w/M_n) or lower. While HICHAIN alcohol molecular weights can easily be tailored to meet your specific needs, the typical properties of our current standard product offerings are shown below.

Typical properties

Product	Melting Point (°C)	Color ASTM	Hydroxyl Number (mg KOH/g sample)
Test Method	ASTM D-127	ASTM D-6045	ASTM E-222
HICHAIN™ 350 alcohol	77	4	129
HICHAIN™ 425 alcohol	91	2.5	100
HICHAIN™ 550 alcohol	99	2.5	83
HICHAIN™ 700 alcohol	105	2.5	65

Solubility characteristics

HICHAIN alcohols are insoluble (<1%) in all solvent systems at room temperatures. They have varying levels of solubility in certain solvents at elevated temperatures. In each case, the elevated temperature is below the solvent's boiling point.

General guidelines:

- No solubility: All solvents/room temperature
- Limited solubility: Ketones, aldehydes, esters/elevated temperatures
- Greatest solubility: Aliphatic and aromatics/elevated temperatures

Product benefits

HICHAIN alcohols offer carbon chain lengths longer than those of conventional fatty alcohols. As a result, they possess higher melt point and hardness, with improved compatibility in polyolefin and hydrocarbon based systems.

Features

Primary alcohol

Linear carbon backbone

Low polydispersity

Benefits

- Compatibilizers with polar polymers
- Reacts to form derivatives

- Improves compatibility with hydrocarbons
- Provides solvent resistance in coatings

- Controls melting point
- Lowers melt viscosity

Standard product form and packaging:

Form: Pastilles

Packaging: 25 kg bags/40 bags per pallet