INOLEX

Cyclomethicone Alternatives
LexFeel® D4 & LexFeel® D5

What's Driving Cyclomethicone Replacement in Personal Care Products?

Changing Regulations:

Cyclotetrasiloxane (D4) and Cyclopentasiloxane (D5) were added to ECHA's restricted substance list (REACH annex XVII) in January 2018. The compounds were prohibited in wash-off products in concentrations equal to or greater than 0.1% by weight of either substance as of January 31, 2020. This regulation change is due to the classification of Cyclotetrasiloxane (D4) as persistent, bioaccumulative, and toxic (PBT and vPvB) and Cyclopentasiloxane (D5) as very persistent/very bioaccumulative (vPvB).

Supply Shortage:

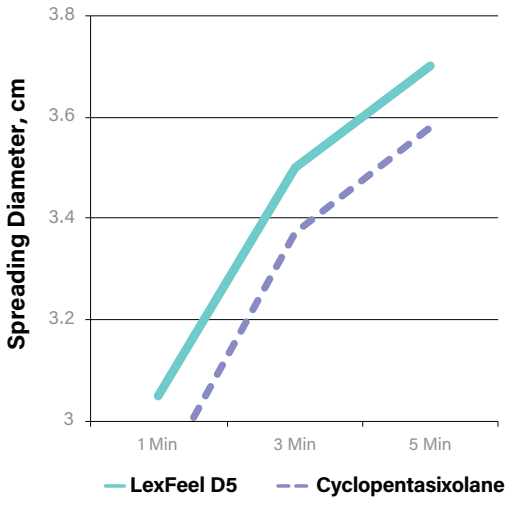
In recent history the beauty industry has faced cyclical and multi-faceted silicone supply shortages. Growing economies and decreased global capacity result in price increases for silicone products worldwide. Cyclotetrasiloxane (D4) and Cyclopentasiloxane (D5) are part of this cyclical global supply strain that is expected to persist in our industry.

LexFeel™ D4 and **LexFeel™ D5** Cyclomethicone Alternatives Offer Like-for-like Replacement Opportunities:

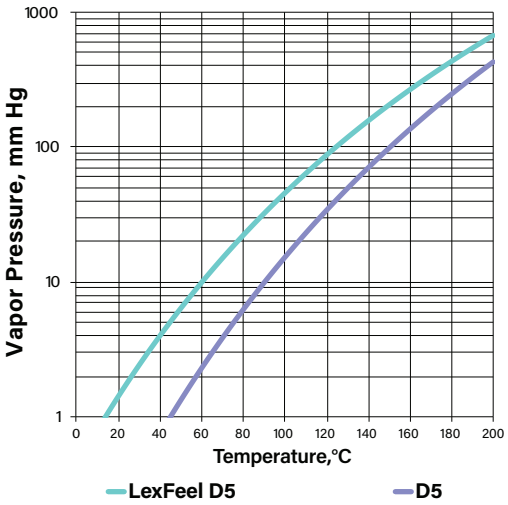
- Cost Effective Emollient Blends
- Global Supply Chain
- Global Cosmetic Registrations Compliant
- Readily Biodegradable

Critical sensory properties of Cyclotetrasiloxane (D4) and Cyclopentasiloxane (D5) are maintained with **LexFeel™ D4** and **LexFeel™ D5**. The result is a light, dry-touch sensory profile.

Spreading properties of LexFeel™ D5 are equivalent to Cyclopentasiloxane (D5)



The volatility of LexFeel™ D5 is equivalent to Cyclopentasiloxane (D5)



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