

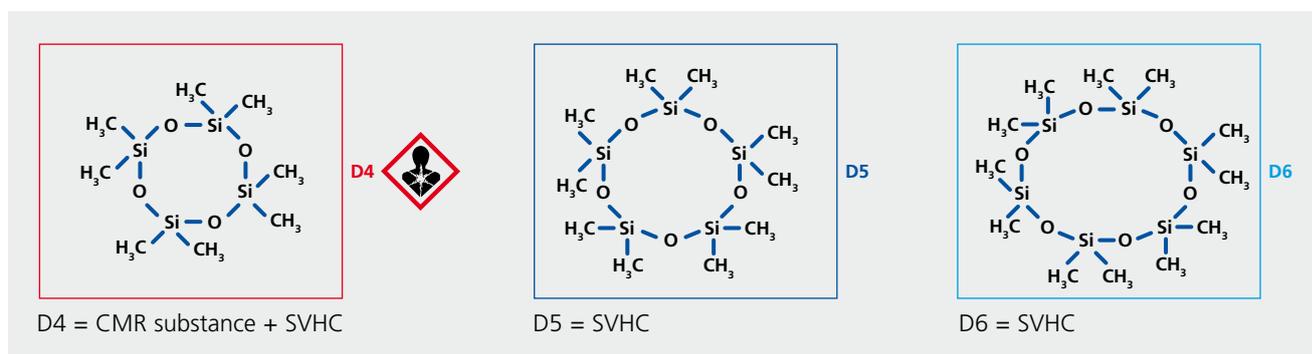
## Cyclic Siloxanes in Silicone-based Additives and their Effects on Your Products

As of June 27, 2018, silicone-based products with a **D4/D5/D6 cyclic siloxanes content of 0.1% or more** must be identified as **SVHC** (Substance of **V**ery **H**igh **C**oncern) on the EU Safety Data Sheet.

BYK offers **purified alternatives** with a residual **D4/D5/D6** content of less than 0.1 % to ensure safe use in any formulation.

### What does “purified” mean?

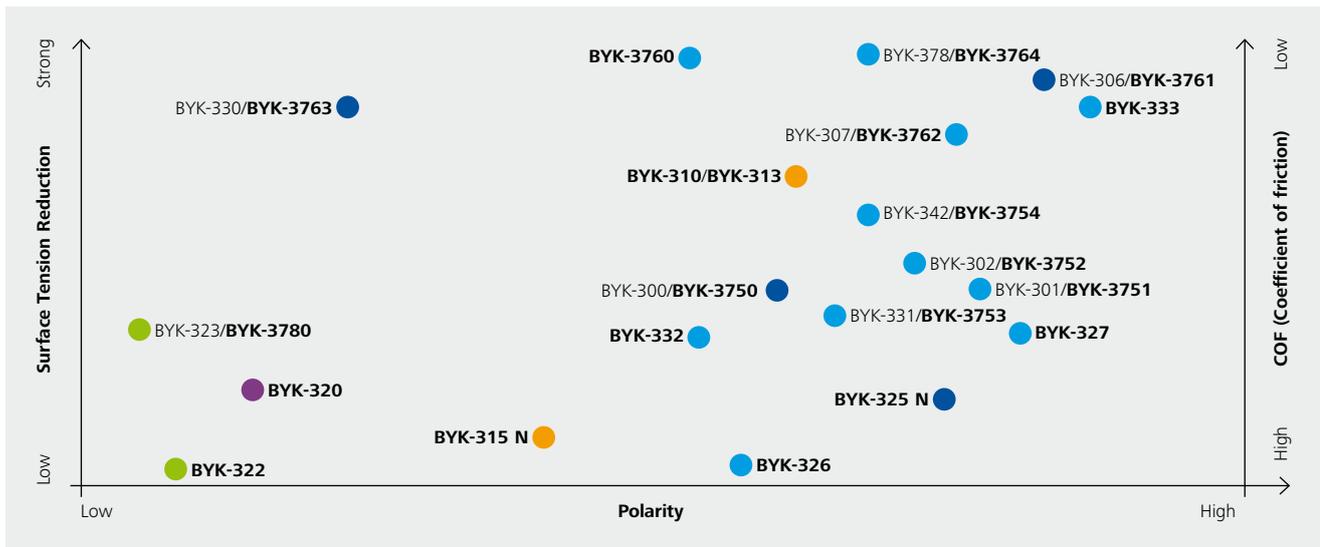
There is an additional production step after manufacture in which the D4/D5/D6 cyclic siloxanes content is reduced to less than 0.1 % in each case.



BYK silicone additives with a cyclic siloxanes content of 0.1 % or more and their **low cycles alternatives**:

Standard additives with a cyclic siloxanes content of 0.1 % or more	Product group	Alternatives with a cyclic siloxanes content below 0.1 %
BYK-017	Defoamer	BYK-1707
BYK-019	Defoamer	BYK-1709
BYK-300	Surface additive	BYK-3750
BYK-301	Surface additive	BYK-3751
BYK-302	Surface additive	BYK-3752
BYK-306	Surface additive	BYK-3761
BYK-307	Surface additive	BYK-3762
BYK-323	Surface additive	BYK-3780
BYK-330	Surface additive	BYK-3763
BYK-331	Surface additive	BYK-3753
BYK-335	Surface additive	-
BYK-337	Surface additive	-
BYK-342	Surface additive	BYK-3754
BYK-370	Surface additive	BYK-3770
BYK-371	Surface additive	-
BYK-375	Surface additive	-
BYK-377	Surface additive	BYK-3771
BYK-378	Surface additive	BYK-3764
BYK-SILCLEAN 3701	Surface additive	-
BYK-SILCLEAN 3710	Surface additive	-
BYK-UV 3500	Surface additive	Alternative: BYK-UV 3505
BYK-UV 3510	Surface additive	-
BYK-UV 3530	Surface additive	-
BYK-UV 3575	Surface additive	-

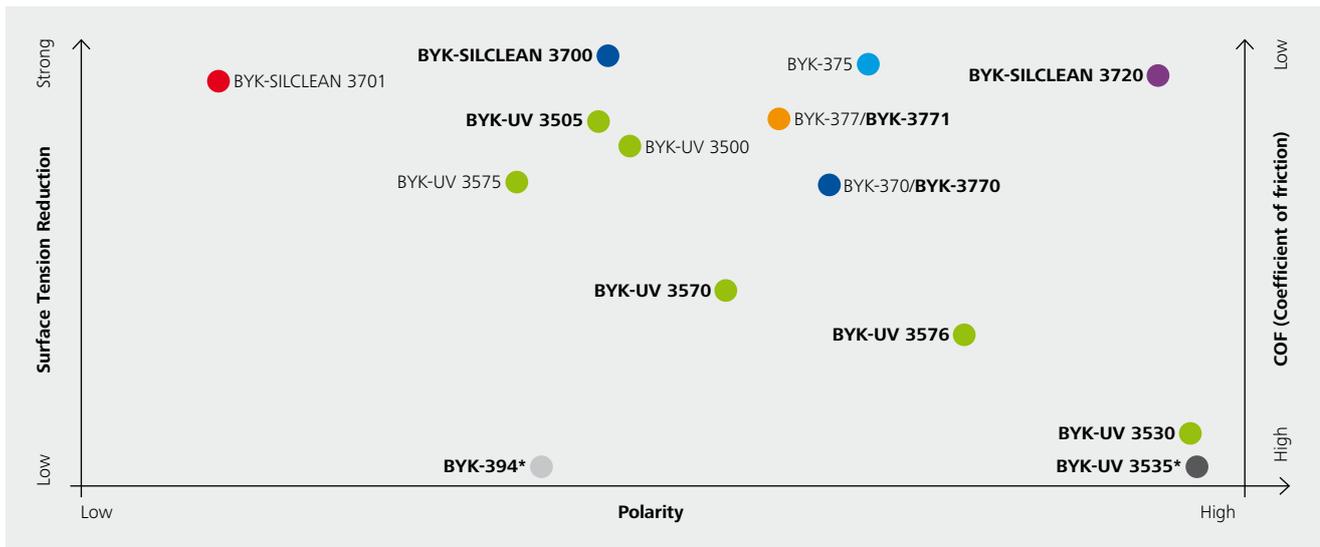
Surface Additives – Overview of Non-Reactive Silicones



- Solvent-borne
- Universal (solvent- and water-borne)
- Solvent-borne + defoaming properties
- Solvent-borne + heat-stable
- Solvent-borne + heat-stable + defoaming properties

Cyclic siloxanes content below 0.1 %

Surface Additives – Overview of Reactive Additives



- Silicone-based:
- Solvent-borne + heat-stable + OH-functional
  - Universal + heat-stable + OH-functional
  - Water-borne + OH-functional
  - Solvent-borne + OH-functional
  - Acrylic-functional
  - Solvent-borne + epoxy-functional
- \*Silicone-free:
- Acrylic-functional
  - Solvent-borne + OH-functional

Cyclic siloxanes content below 0.1 %



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