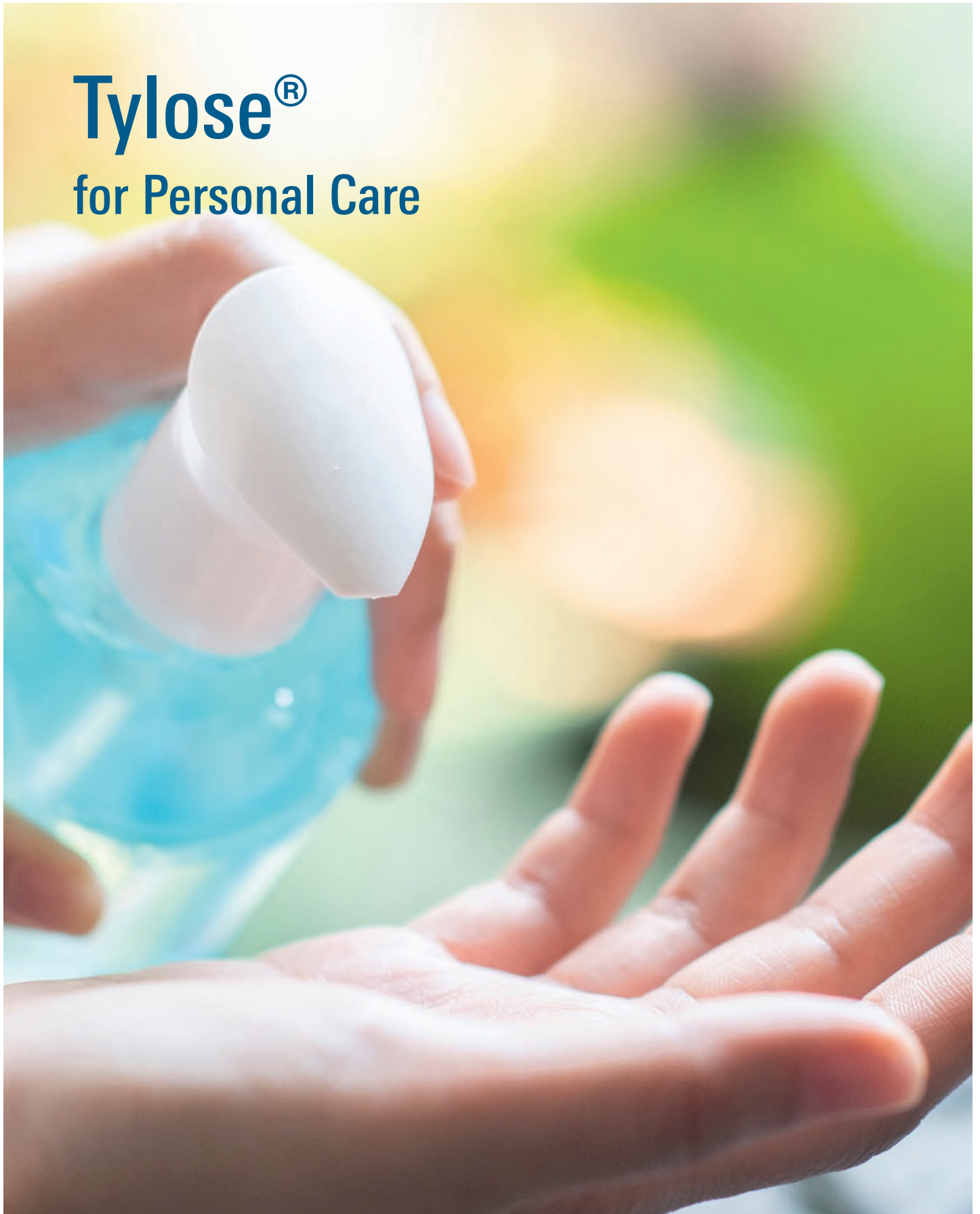


Tylose®

for Personal Care



Tylose® for Personal Care



Tylose hydroxyethylcellulose (HEC) and hydroxypropyl methylcellulose (HPMC) are non-ionic, water soluble cellulose derived polymeric thickeners. Tylose grades are physiologically harmless, low eye irritant, cosmetic additives. These multifunctional additives can improve personal care formulations in many ways – far beyond just thickening and binding.

Application Properties

Important Functional Properties of Tylose in Personal Care:

- ▶ Thickening/adjustment of consistency
- ▶ Foam enhancement and stabilisation
- ▶ Emulsion stabilisation
- ▶ Binding power

Why Tylose in Personal Care Formulations?

High Naturality

Tylose is chemically modified cellulose and thus mainly of renewable origin. The natural origin index, according ISO 16128, dependent on the Tylose grade, is between 0.55 and 0.85.

Sustainability

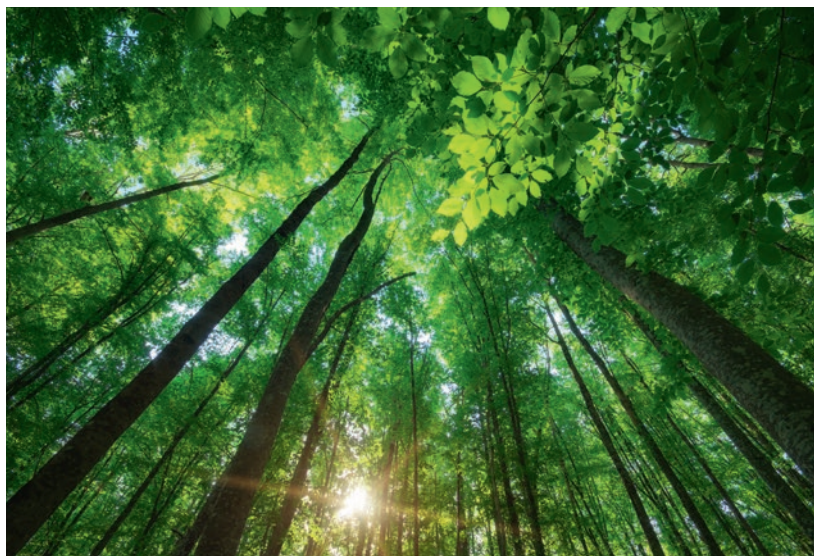
We are committed to sustainability as a core value, using raw materials from renewable sources wherever possible and implementing sustainable manufacturing practices. We align our efforts with the United Nations Sustainable Development Goals (SDGs) to promote sustainable practices and reduce environmental impact. Our goal is to create a more sustainable future for all through our operations and products.

Dedicated Personal Care grades

Tylose 70-grades are highly purified, dedicated personal care grades, available as hydroxyethyl cellulose and hydroxypropyl methylcellulose.

High flexibility, easy to apply

Tylose is available as granules and powders with or without retarded swelling time and in different molecular weights / viscosities, which gives formulators a high degree of flexibility.



Typical Applications and Main Contributions of Tylose®

Skin Care

Creams, lotions:	Emulsification, film-forming
Liquid soaps, bath gels:	Thickening, foam boosting
Serums:	Thickening, film-forming, lubricity
Shaving products:	Foam enhancement
Decorative cosmetics:	Binding power, film-forming, suspending power

Hair Care

Shampoo and conditioners:	Thickening, pseudoplastic rheology, foam enhancement
Hair styling products:	Thickening, lubricity, film-forming

Oral Care

Toothpaste*:	Thickening, suspending power
Mouthwash:	Rheology adaptation

*In particular with amine fluoride.



Recommended Grades

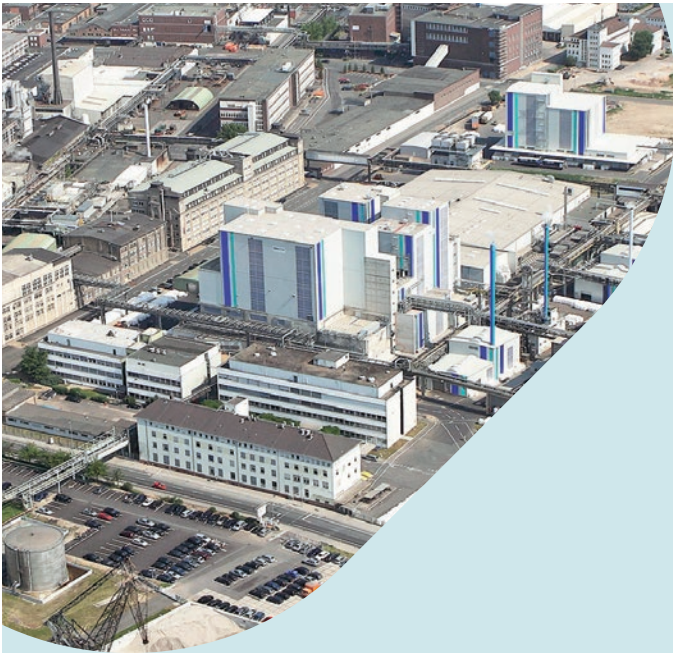
Tylose grades	Viscosity	Delayed solubility	Applications								
	Viscosity ca. (mPas)		Skin Care					Hair Care		Oral Care	
			Creams/Lotions	Liquid soaps/Bath gels	Serums	Shaving products	Decorative cosmetics	Shampoo/Conditioners	Styling products	Toothpaste	Mouthwash
Hydroxyethylcellulose											
H 20 P2	200 – 450 (5,0 %) *1	●	■		■		■				
H 300 NG4	400 – 700 (2,0 %) *1						■				■
H 4070 NG4	3500 – 5000 (2,0 %) *1		■				■			■	■
H 10000 NG4	6000 – 7500 (2,0 %) *1						■			■	
H 30070 NP2	1500 – 2500 (1,0 %) *1									■	
H 100000 YP2	3800 – 5000 (1,0 %) *1	●				■		■	■		
H 100070 NP2	3800 – 5000 (1,0 %) *1			■		■		■	■		
Hydrophobically Modified Hydroxyethylcellulose											
HX 6000 YG4 Plus	400 – 650 (1,0 %) *1	●						■			
Hydroxypropyl Methylcellulose											
MOBS 3 P4	2,4 – 3,6 (2,0 %) *4			■	■						
MO 4000 P4	3800 – 5300 (2,0 %) *3					■					
MOBS 4070 P4	3000 – 5600 (2,0 %) *2			■		■					

¹⁾ Brookfield LV, absolute dry, 25° C

²⁾ Brookfield LV, absolute dry, 20° C

³⁾ Brookfield RV, absolute dry, 20° C

⁴⁾ Ubbelohde, absolute dry, 20° C



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Product Safety

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Technical Sales Support

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About us

SE Tylose GmbH & Co. KG is one of the major manufacturers of cellulose ethers world-wide, supplied under the brand name Tylose®. Tylose is used in a wide variety of products and applications.

Applications

- ▶ Building Materials
- ▶ Paints
- ▶ Ceramics
- ▶ Polymerisation
- ▶ **Personal Care**
- ▶ Home Care
- ▶ Oilfield
- ▶ Others

This information is based on our present state of knowledge and is intended to provide general notes about our products and their use only. It should not therefore be construed as guaranteeing the consistence or permanency of the products or specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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