



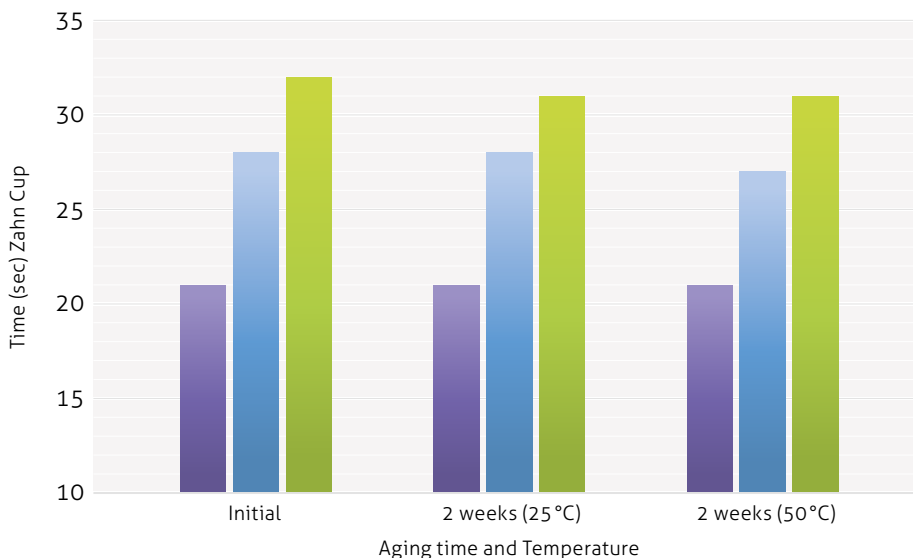
ADDITIVES AND WAXES FOR INDUSTRIAL AND INSTITUTIONAL CLEANING



OUR PRODUCTS FOR YOUR SHINING RESULTS

- » Antifoams
- » Defoamers
- » Rheology modifiers
- » Antideposition agents
- » Surfactants
- » Waxes
- » Non-microplastic opacifiers

CASE STUDY THICKENERS FOR ACIDIC CLEANERS



Goal: Obtain a similar viscosity to the reference system and maintain the viscosity for two weeks at 50 °C.

Outcome: TAFIGEL® PUR 44 provides efficient thickening and maintains viscosity over time.

Key
■ Blank (no thickener)
■ Reference System
■ TAFIGEL® PUR 44 @ 2.5%



Additives for detergents products

Product	Chemistry	Percentage of Active Water & non-aqueous	Standard Laundry detergent	ECO detergent	Dishwashing detergent	Alkaline cleaner (pH 7-12)	Acidic cleaner (pH 3-7)	Window cleaner	Abrasive cleaner
ANTIFOAMS & DEFOAMERS		LIQUID							
AGITAN® 361	veg,hs,fa			●					
FOAM BAN® 1550	3D, poa		●		●	●	○		○
FOAM BAN® 1820	3D, poa		○	○		●		●	
FOAM BAN® 1840	3D, poa		●						
FOAM BAN® 1849	3D, poa		●			○	○		
FOAM BAN® 1880	3D,poa		○			○	●		
FOAM BAN® 1890	3D, poa			○			○		
FOAM BAN® 2699	poa		○				○		
FOAM BAN® 4901	3D					○		○	●
FOAM BAN® 4950	3D					●			
FOAM BAN® HP940	3D		●		●				
FOAM BAN® HP980	3D		●		●	●	●		
MAGRABAR® J-305	fge			●	○				
MAGRABAR® PD-4483	veg, hs,pfe			○					
ANTI-DEPOSITION		LIQUID							
EDAPLAN® 516	ac							○	○
RHEOLOGY MODIFIER		LIQUID							
TAFIGEL® AP 15	ac								○
TAFIGEL® PUR 44	pu						●		
TAFIGEL® PUR 48	pu		○				●		○
TAFIGEL® PUR 52	pu		●*			●			
TAFIGEL® PUR 64	pu		●*			○			
SURFACTANT		LIQUID							
METOLAT® 1299	es							●	
EDAPLAN® LA 452	es							●	●

3D = 3-Dimensional siloxane
 ac = Acrylic
 es = Ester
 fa = Fatty acid
 fge = Food grade ester

hs = Hydrophobic silica
 pfe = Polyol fatty acid ester
 poa = Polyalkylene technology
 pu = Polyurethane
 veg = Vegetable oil

○ Recommended ● Highly recommended
 * Best choice for fabric softeners



Additives and waxes for care products

Product	Chemistry	Percentage of Active , Water & non-aqueous	Opacifier ¹	Floor care	Furniture care	Shoe polish	Leather care
ANTI-FOAMS & DEFOAMERS		LIQUID					
FOAM BAN® 1550	3D, poa						
FOAM BAN® 1880	3D, poa						
FOAM BAN® 4901	3D						
FOAM BAN® HP940	3D						
FOAM BAN® HP980	3D						
RHEOLOGY MODIFIER		LIQUID					
TAFIGEL® PUR 52	pu						
WAX		POWDER					
CERETAN® MCX 6625	ca, pe						
WAX		DISPERSION					
LUBARIT® 328/R	am						
LUBARIT® 560/W	hc						
LUBARIT® 868/F	ca blend						
LUBARIT® 1300/C	fb, rtu						
LUBARIT® 1930/A	ca						
LUBARIT® 1934/A	fb, rtu						
LUBARIT® 7040	pe						
LUBARIT® CA 300	ca blend						
LUBARIT® KL 300	es wax						
LUBARIT® T-304/D60	fb						

3D = 3-Dimensional siloxane
 am = Amide wax
 ca = Carnauba wax
 es = Ester
 fb = Functional wax blend

hc = Hydrocarbon
 pe = Polyethylene wax
 poa = Polyalkylene technology
 pu = Polyurethane
 rtu = Ready to use

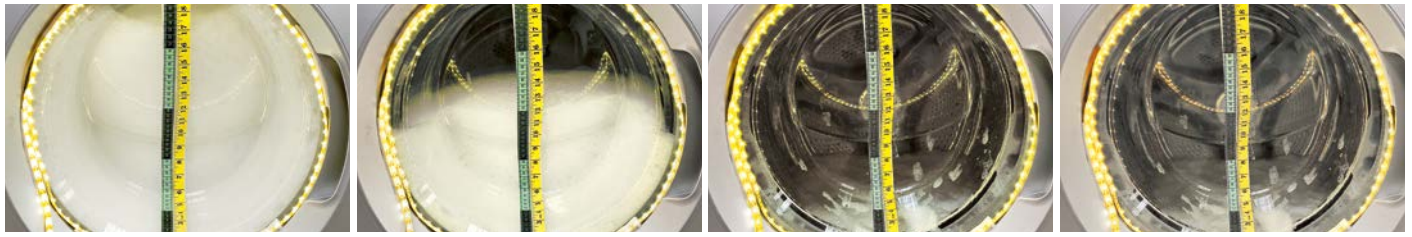
Recommended Highly recommended

¹ Non-microplastic as per ECHA definition in the Annex XV Restriction Report on Intentionally Added Microplastics of 22nd Aug 2019 (ref.: Table 3, item 2. a.), because all solids in the formulation occur in nature, and/or are biodegradable, and/or are not a polymer.



CASE STUDY

RENEWABLE, BIO-BASED LIQUID LAUNDRY DETERGENT



Blank (no defoamer)

Industry Benchmark (0.5%)

FOAM BAN® 1820 (0.1%)

FOAM BAN® 1840 (0.1%)

- » Foam generation observed using a front loader laundry machine
- » FOAM BAN® 1820 and FOAM BAN® 1840 provided **excellent compatibility** in the liquid concentrate and **antifoam properties** during washing

- » FOAM BAN® 1800 series products **provided improved performance** compared to the Industry Benchmark at lower dosages

CASE STUDY

SEPARATING AGENTS



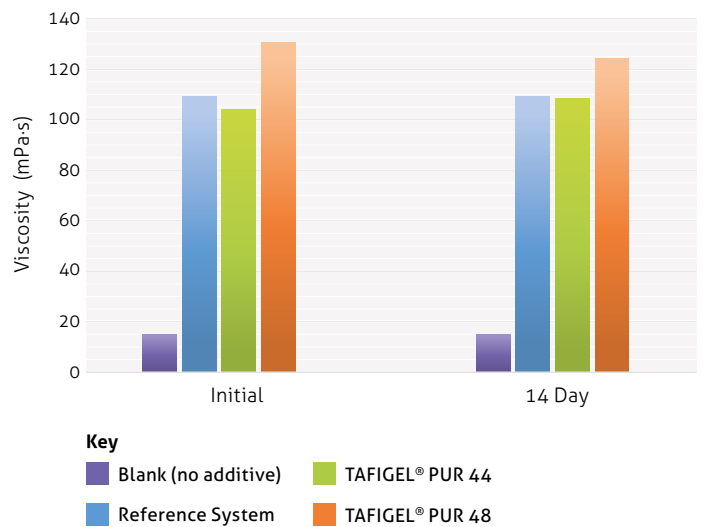
Blank (no additive)

Reference System

TAFIGEL® PUR 44

TAFIGEL® PUR 48

- » Customer observed inconsistent flow and poor clarity in a process cleaning agent (Reference). Application is by a curtain flow process.
- » TAFIGEL® PUR 44 shows **excellent compatibility** and **clarity** in the customer formulation.
- » TAFIGEL® PUR 48 shows **superior compatibility** and **rheology stability** in the customer formulation.
- » The TAFIGEL® PUR 44 and TAFIGEL® PUR 48 have **very good application** into high ionic strength media.



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