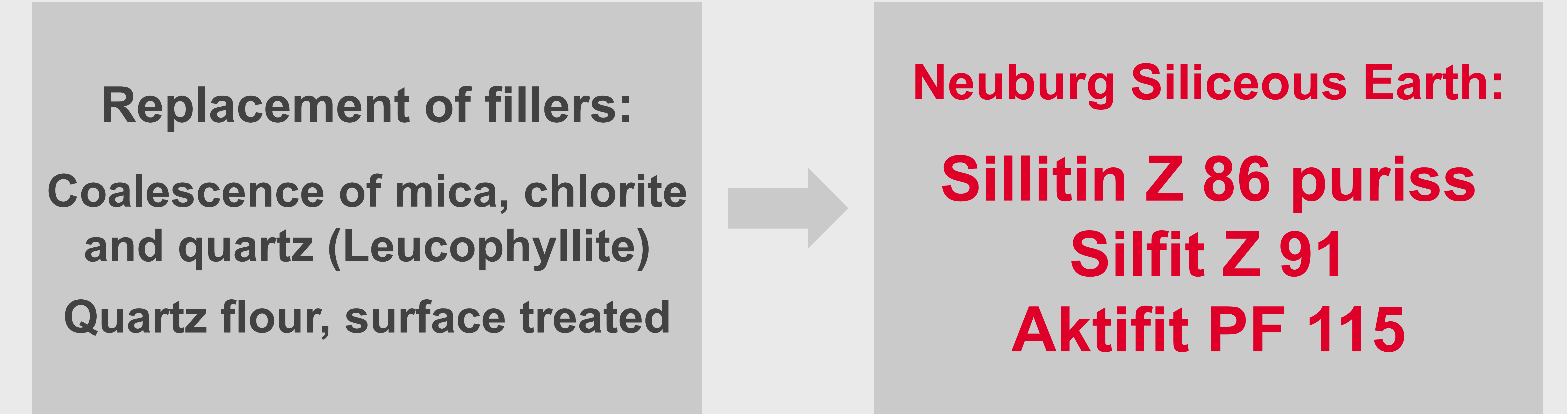


NEUBURG SILICEOUS EARTH IN HEAVY-DUTY 2K PU COATINGS

e.g. for Pipelines

OBJECTIVE



FORMULATION

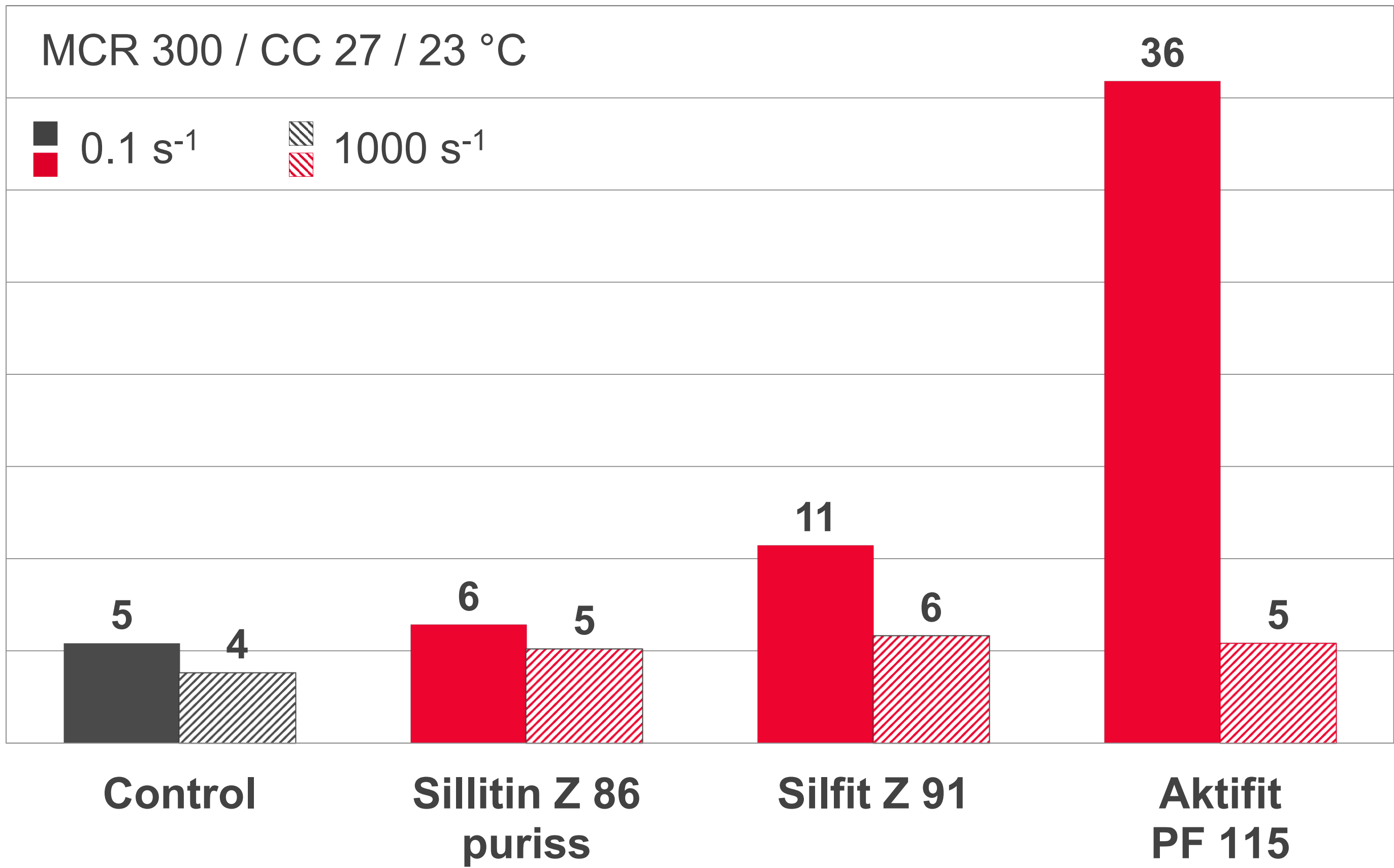
			Control	Neuburg Siliceous Earth		
A	Desmophen 1400 BT	Binder, polyol	13.14			
	Desmophen T 460	Binder, polyol	13.14			
	Barite	Filler	8.87	8.87	8.87	8.87
	Coalescence of mica, chlorite and quartz (Leucophyllite)	Filler	6.69	-	-	-
	Quartz flour, surface treated	Filler	6.34	-	-	-
	Sillitin Z 86 puriss	Filler	-	13.03	-	-
	Silfit Z 91	Filler	-	-	13.03	-
	Aktifit PF 115	Filler	-	-	-	13.03
	Finma Sorb 430 PR	Molecular sieve	5.21			
	Ethacure 100 Plus	Crosslinking aid	1.26			
	Byk-A 530	Defoamer	0.26			
	Disperbyk 163	Wetting/dispersing	0.26			
	Dabco LV 33	Catalyst	0.24			
	Total component A		55.41			
B	Desmodur E 29	Hardener, isocyanate MDI prepolymer	approx. 44			
	Total Formulation (A+B)		99.41			
	Mixing ratio component A:B by volume		1:1			
	Stoichiometric mixing ratio isocyanate/polyol		approx. 1.25			

NEUBURG SILICEOUS EARTH IN HEAVY-DUTY 2K PU COATINGS

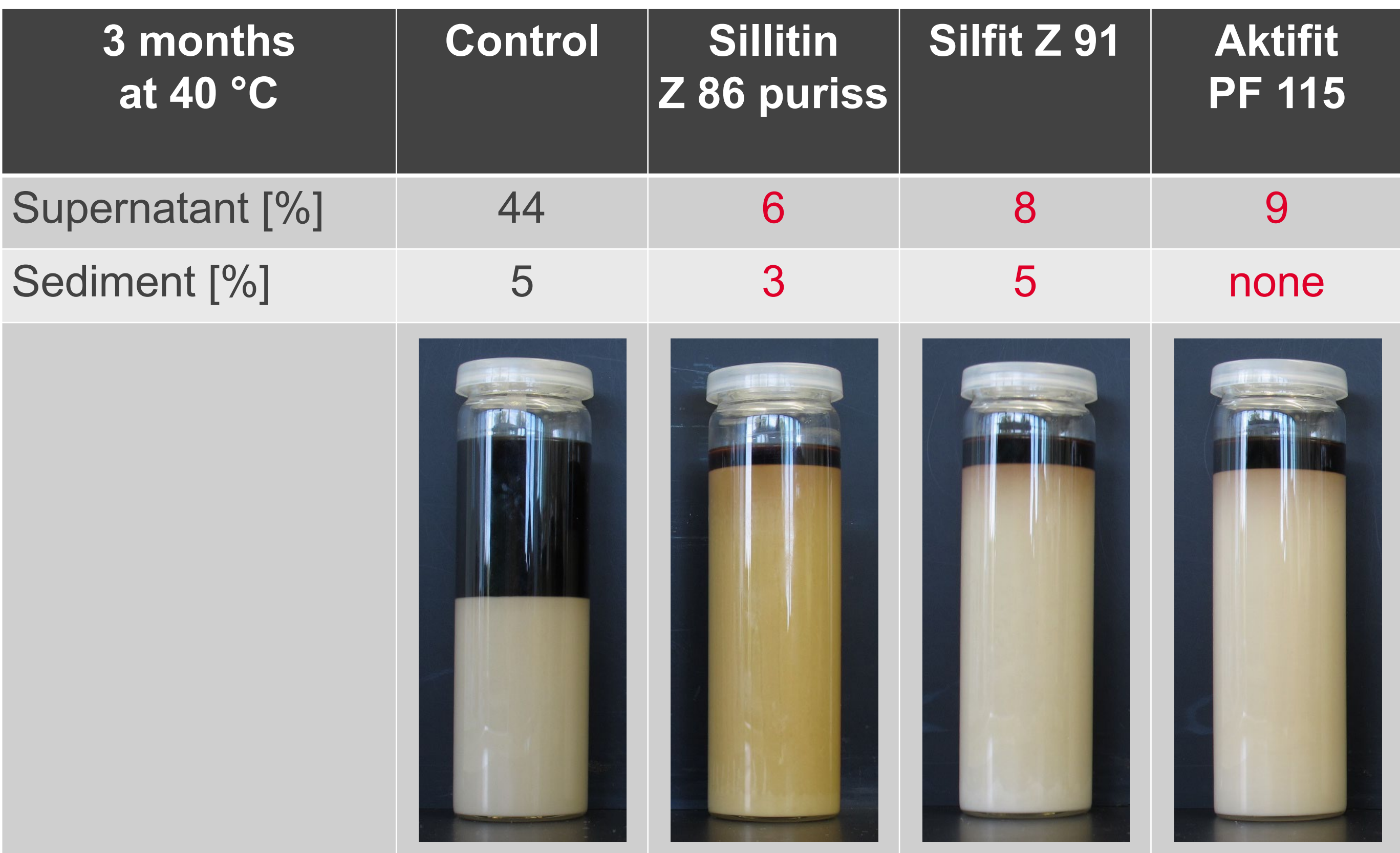
e.g. for Pipelines

RESULTS

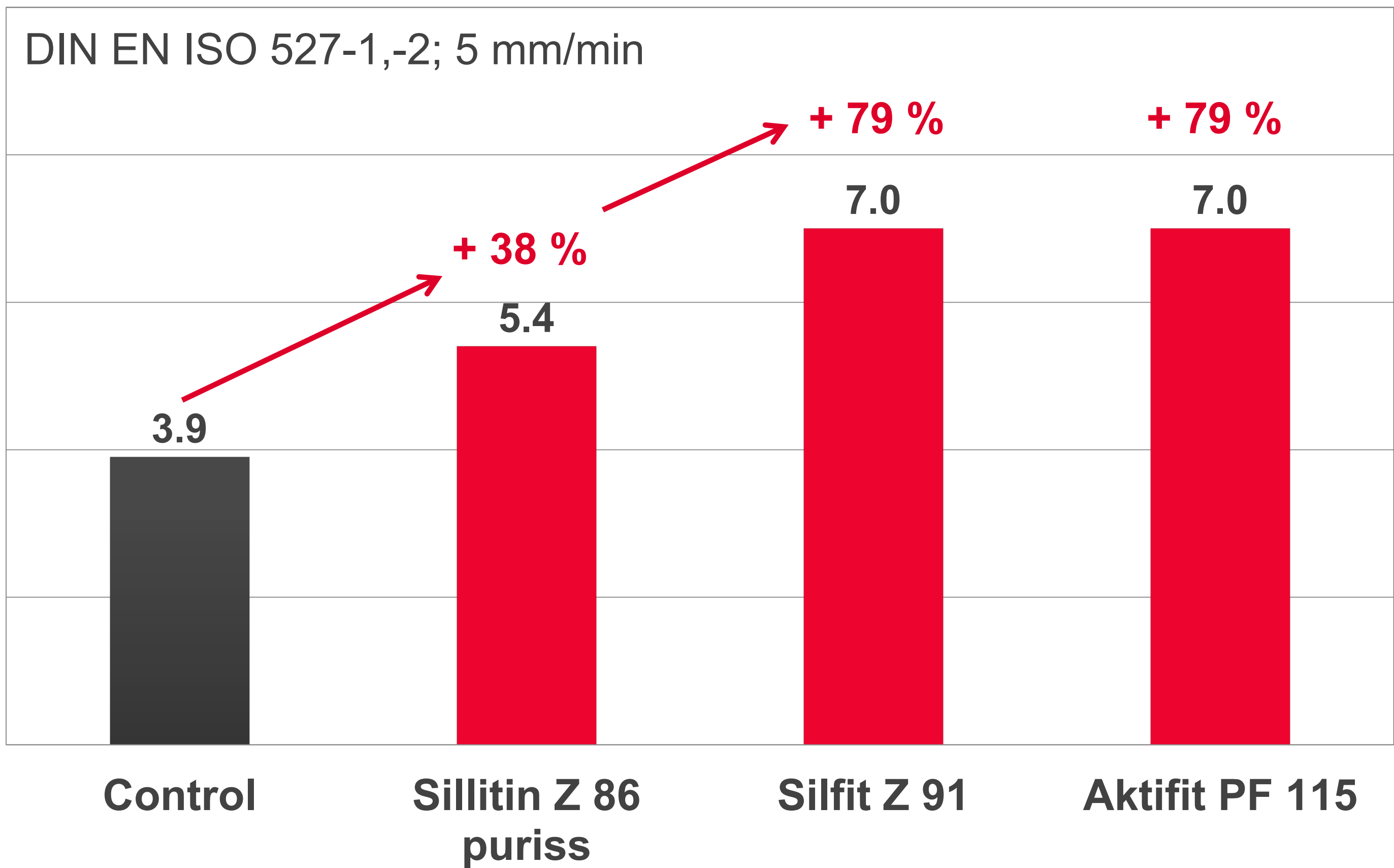
Viscosity Component A [Pa·s]



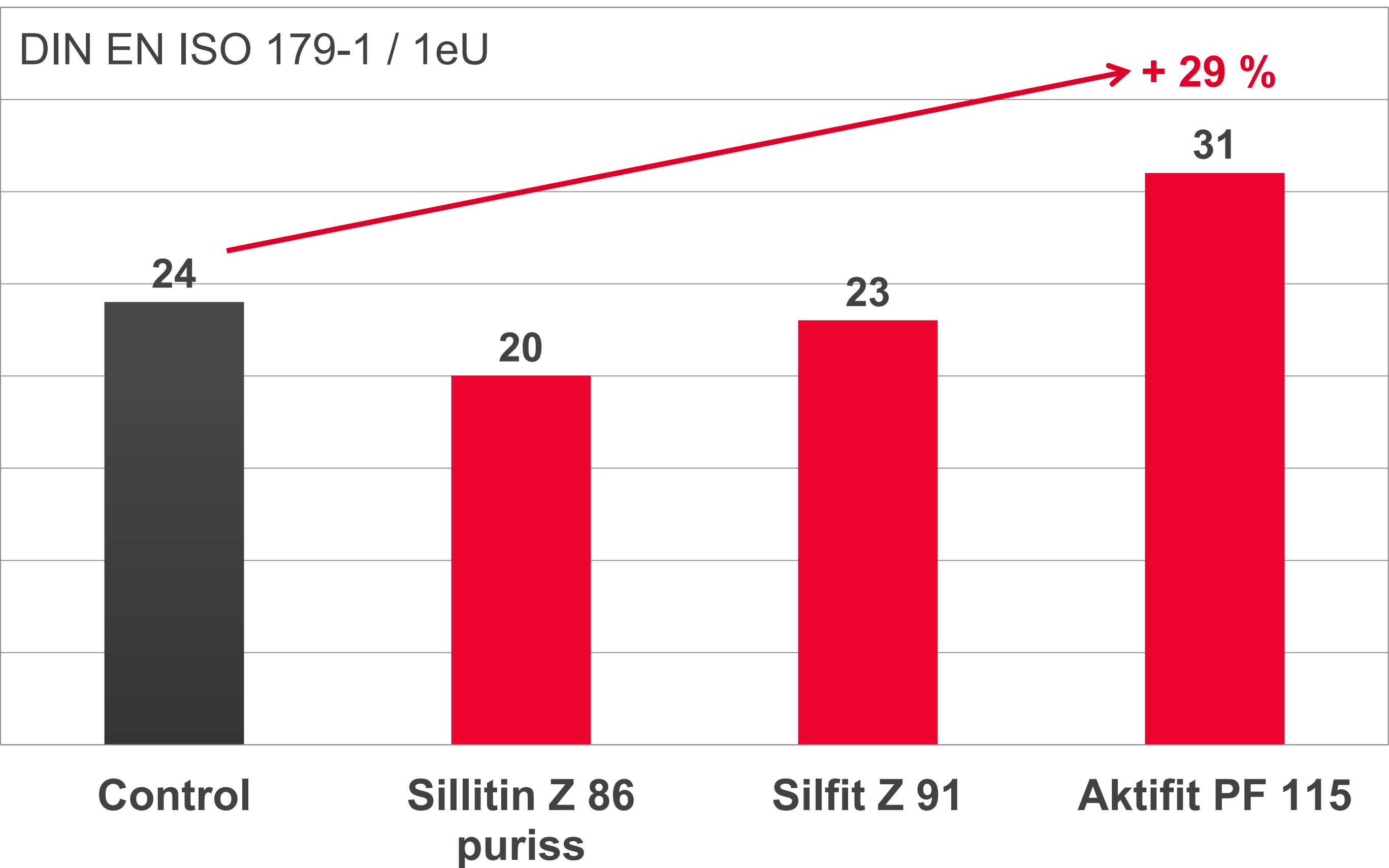
Storage Stability Component A



Tensile Strain at Break [%]

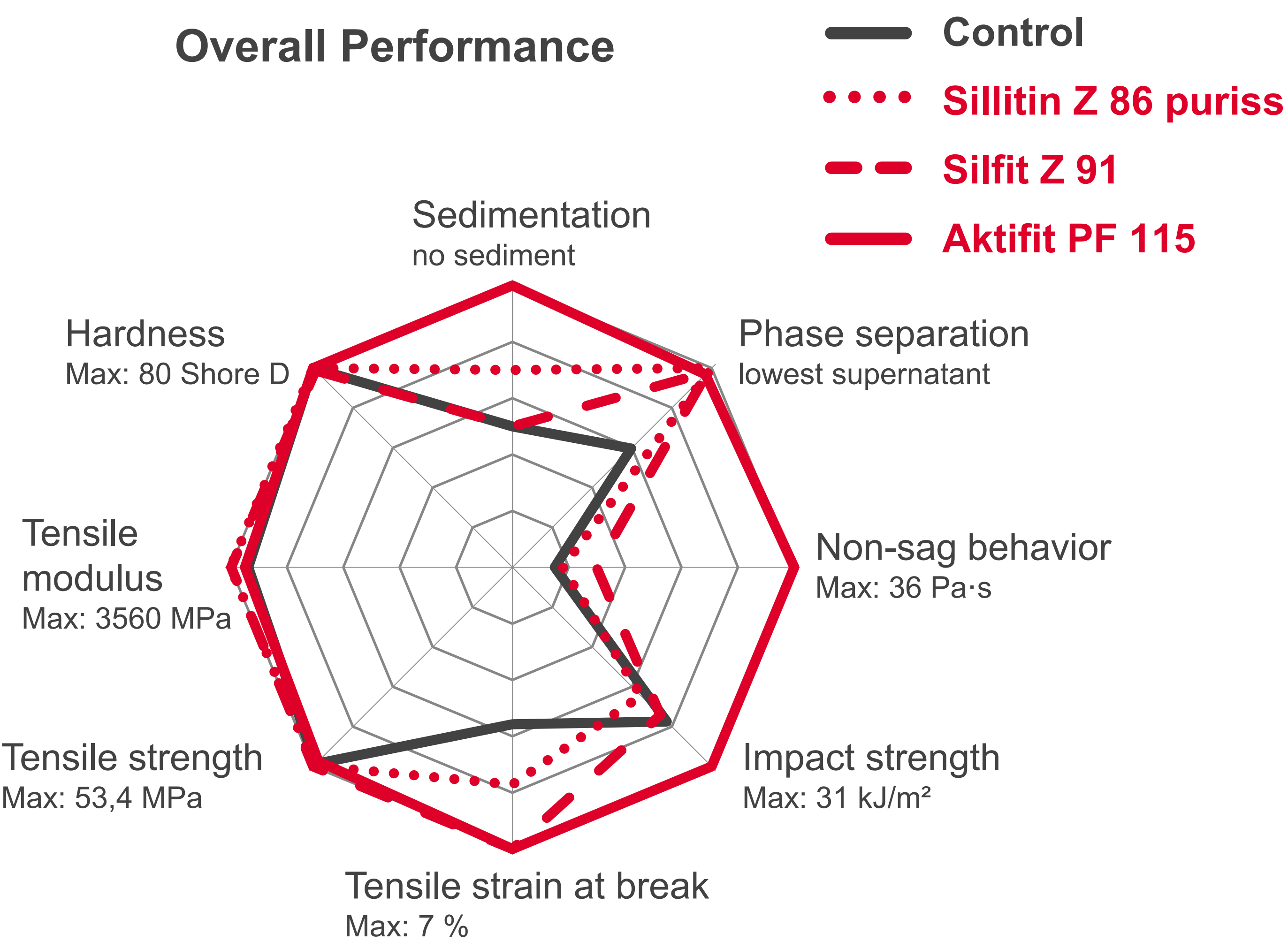


Impact Strength Charpy [kJ/m²]



SUMMARY

Overall Performance



Filler Recommendations:

- Sillitin Z 86 puriss**
- + cost-effective standard product
 - + improved storage stability (significantly less supernatant / slightly reduced sediment)
 - + improved tensile strain at break
- Silfit Z 91**
- + color neutral
 - + improved storage stability (significantly less supernatant)
 - + significantly improved tensile strain at break
- Aktifit PF 115**
- + color neutral
 - + high rheological activity (non-sag behavior)
 - + improved storage stability (significantly less supernatant / no sedimentation)
 - + significantly improved tensile strain at break
 - + higher impact strength