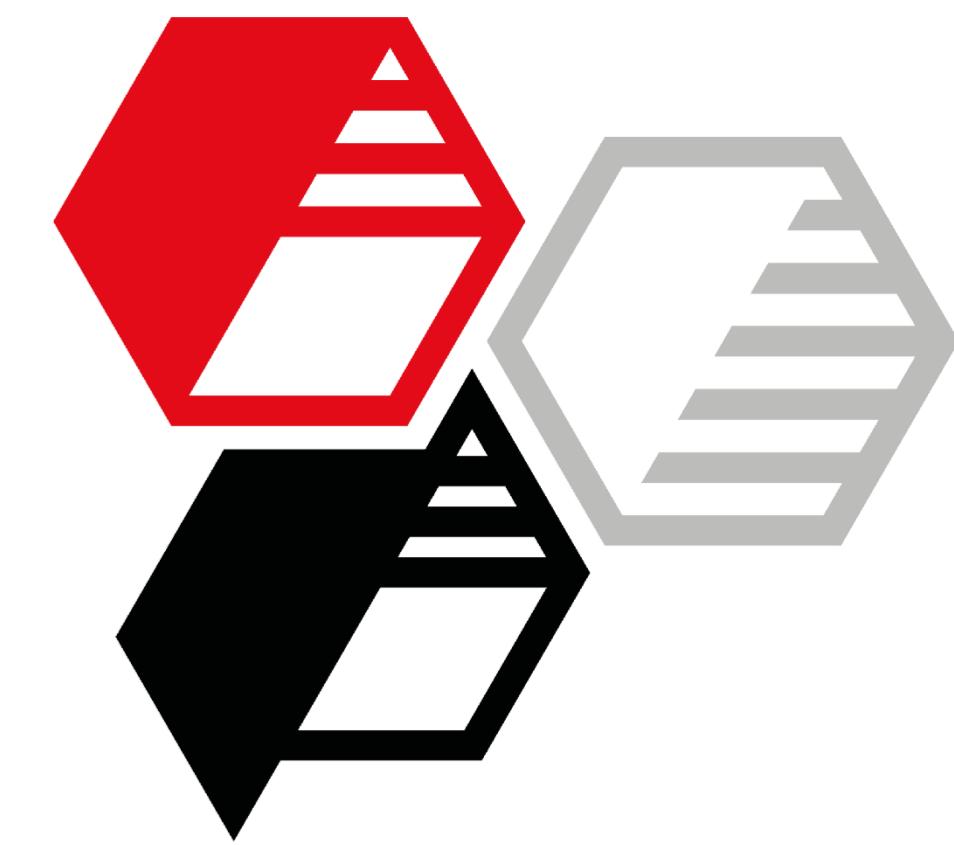
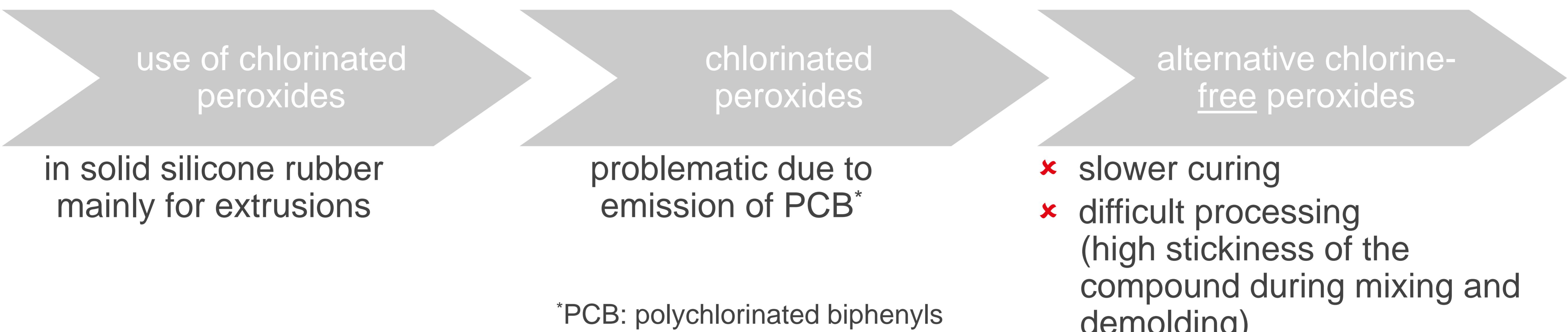


Alternative chlorine-free peroxide for silicone rubber: benefits with Aktisil Q



Status quo



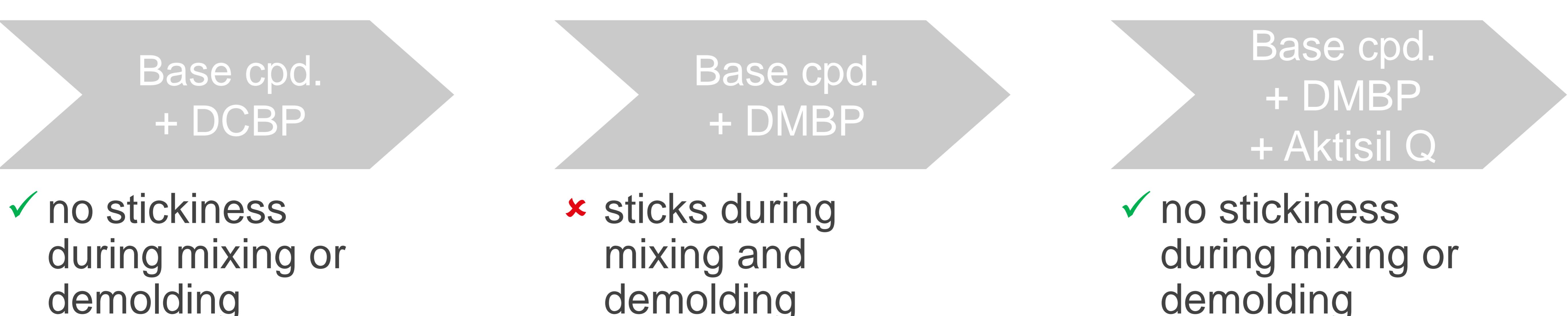
Objective



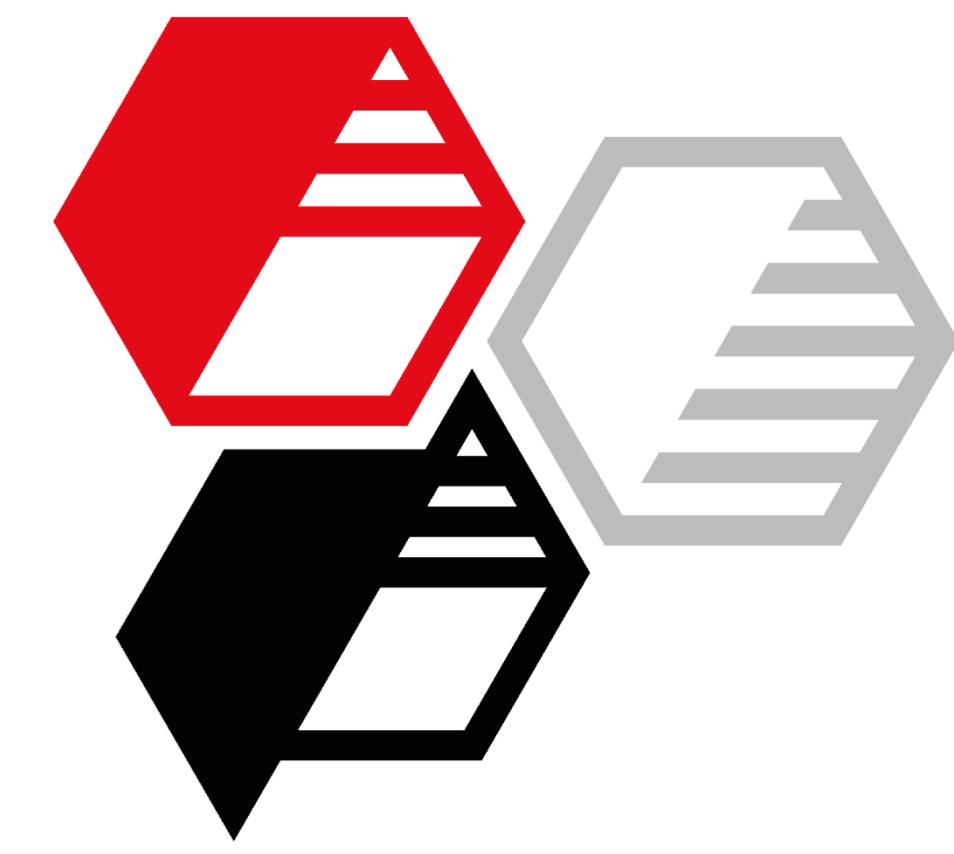
Formulation

		phr
Elastosil R 401/40	Polymer hardness: 40 Shore A	100
Aktisil Q	filler, Neuburg Siliceous Earth, methacrylic functionalized	0 – 100
Perkadox PD-50S-ps DCBP	peroxide, chlorinated di-(2,4-dichlorobenzoyl)peroxide	1.5
Perkadox PM-50S-ps DMBP	peroxide, chlorine-free di-(4-methylbenzoyl)peroxide	- 1.07

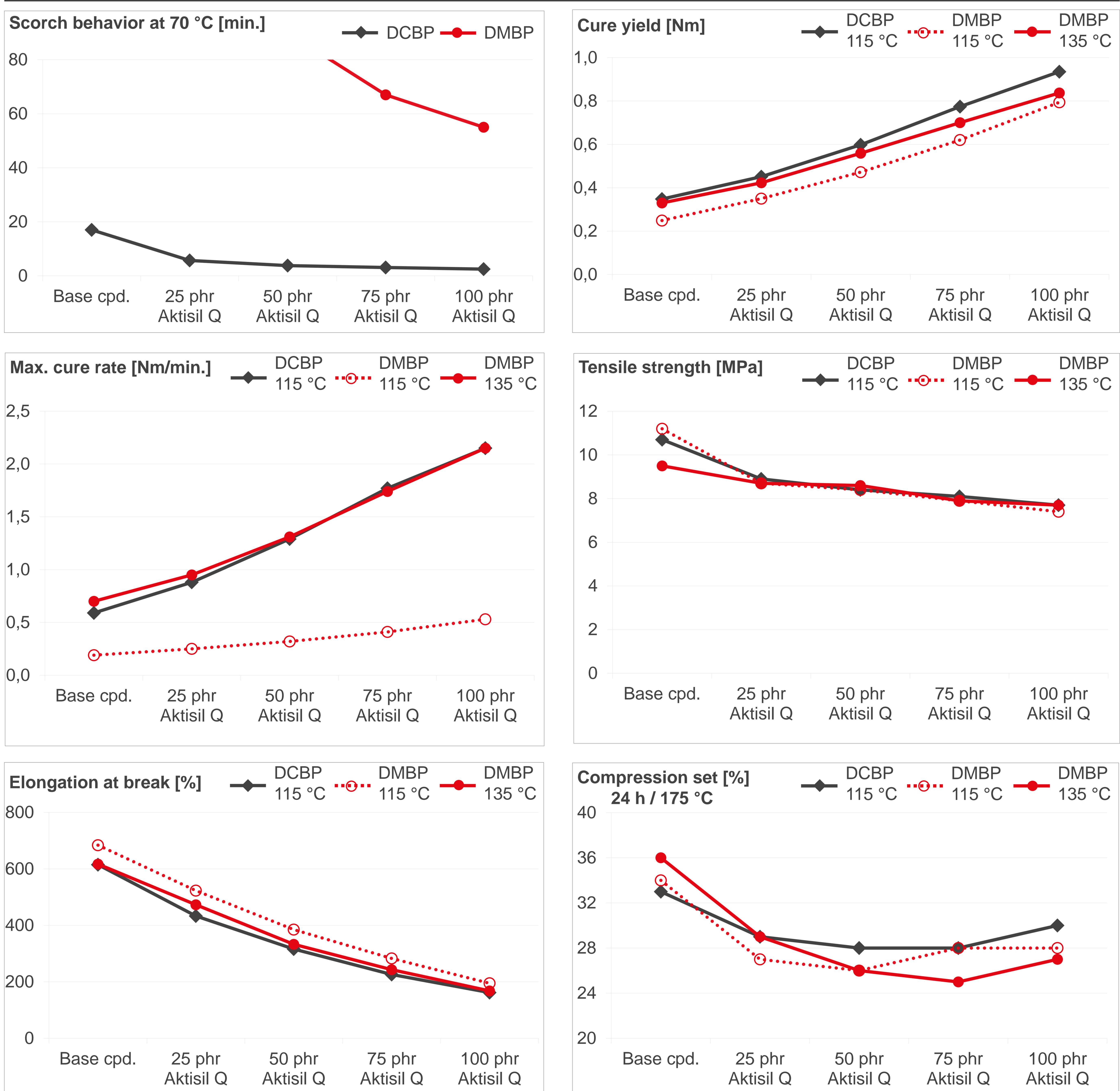
Experimental plan and specimens preparation



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Results



Summary

Replacing chlorinated peroxide with a chlorine free alternative along with using **Aktisil Q** and increasing the cure temperature

easy processing due to eliminated stickiness

higher scorch safety

comparable and fast curing

comparable tensile properties

slightly improved compression set