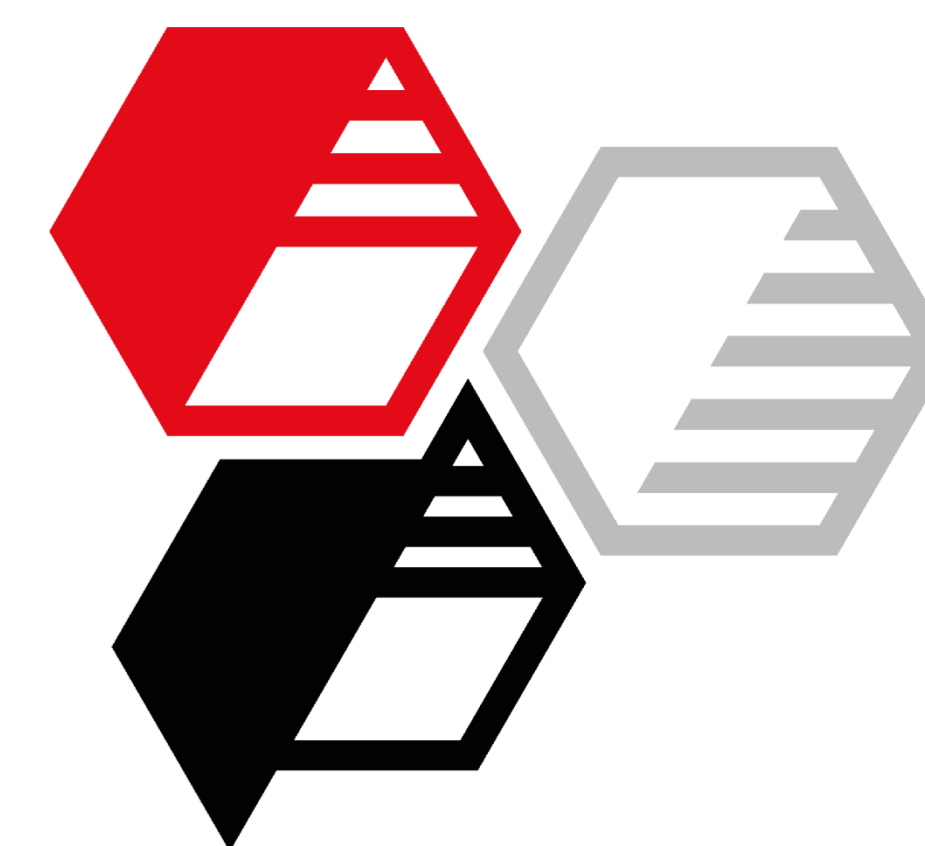
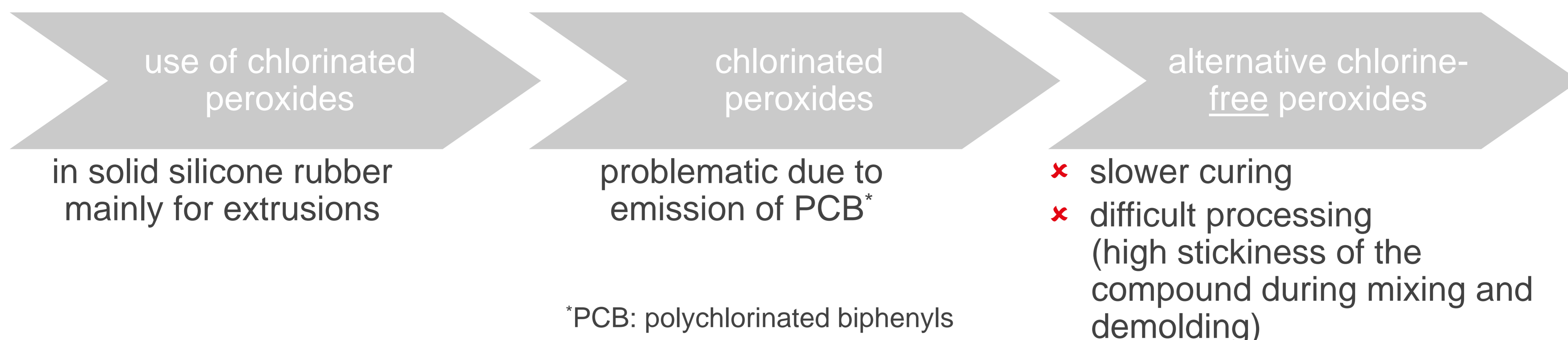


Alternative chlorine-free peroxide for silicone rubber: benefits with Aktisil Q



Status quo



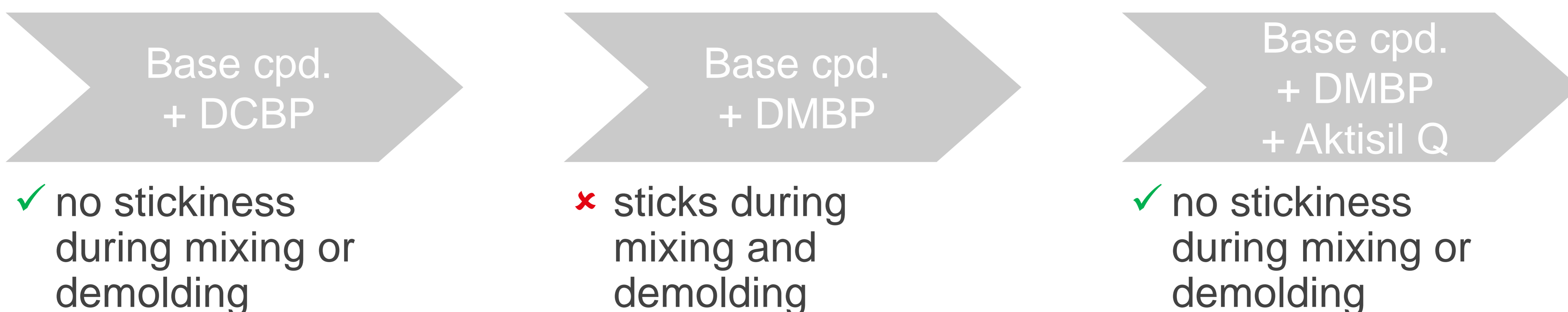
Objective



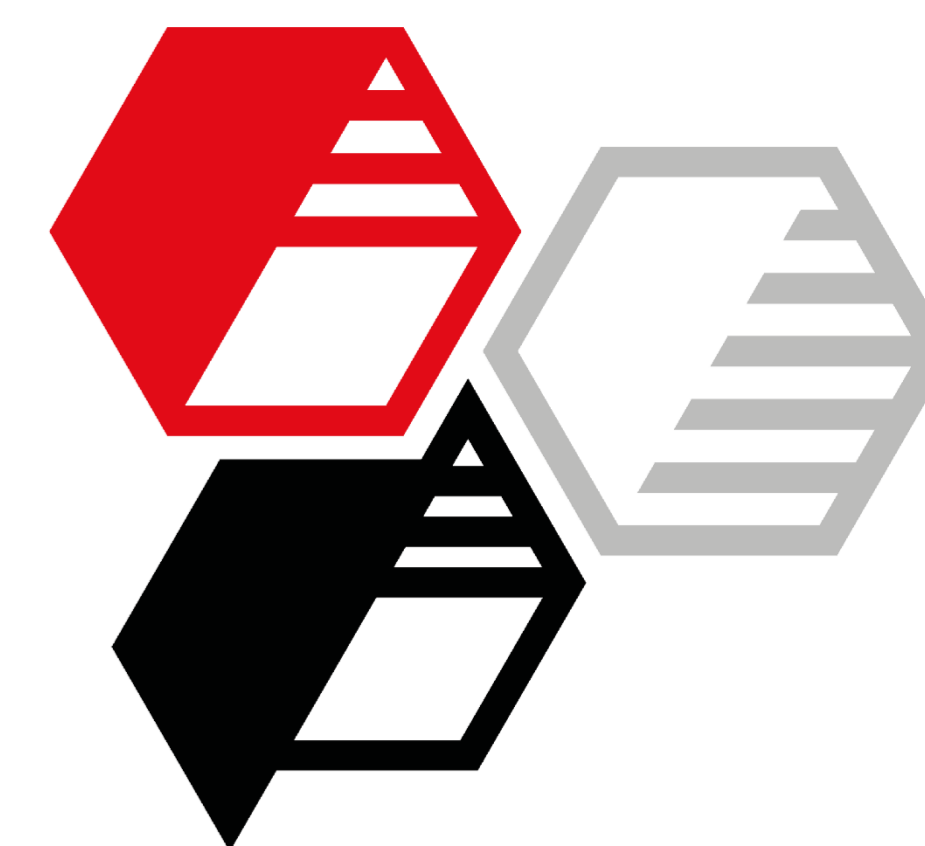
Formulation

		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

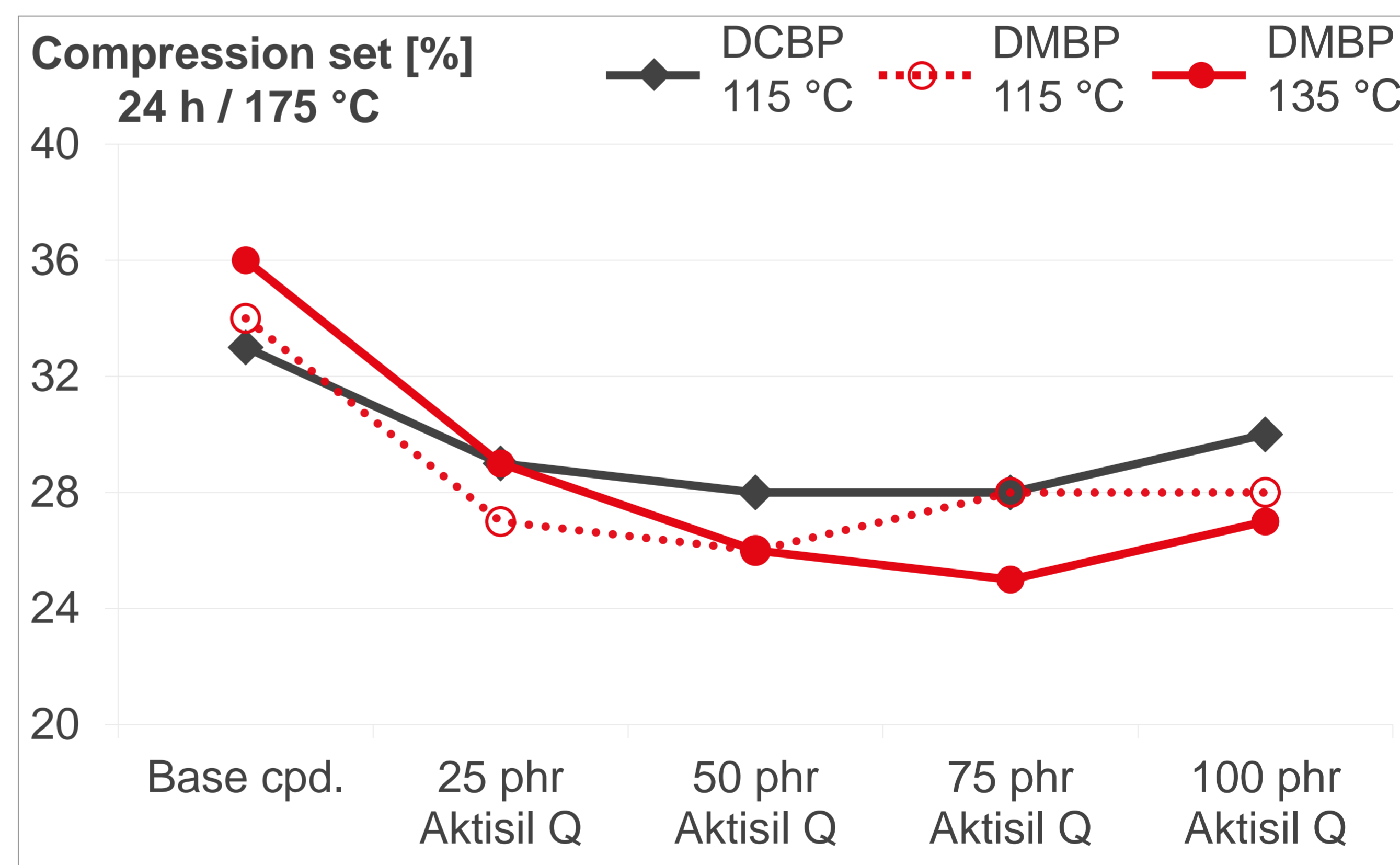
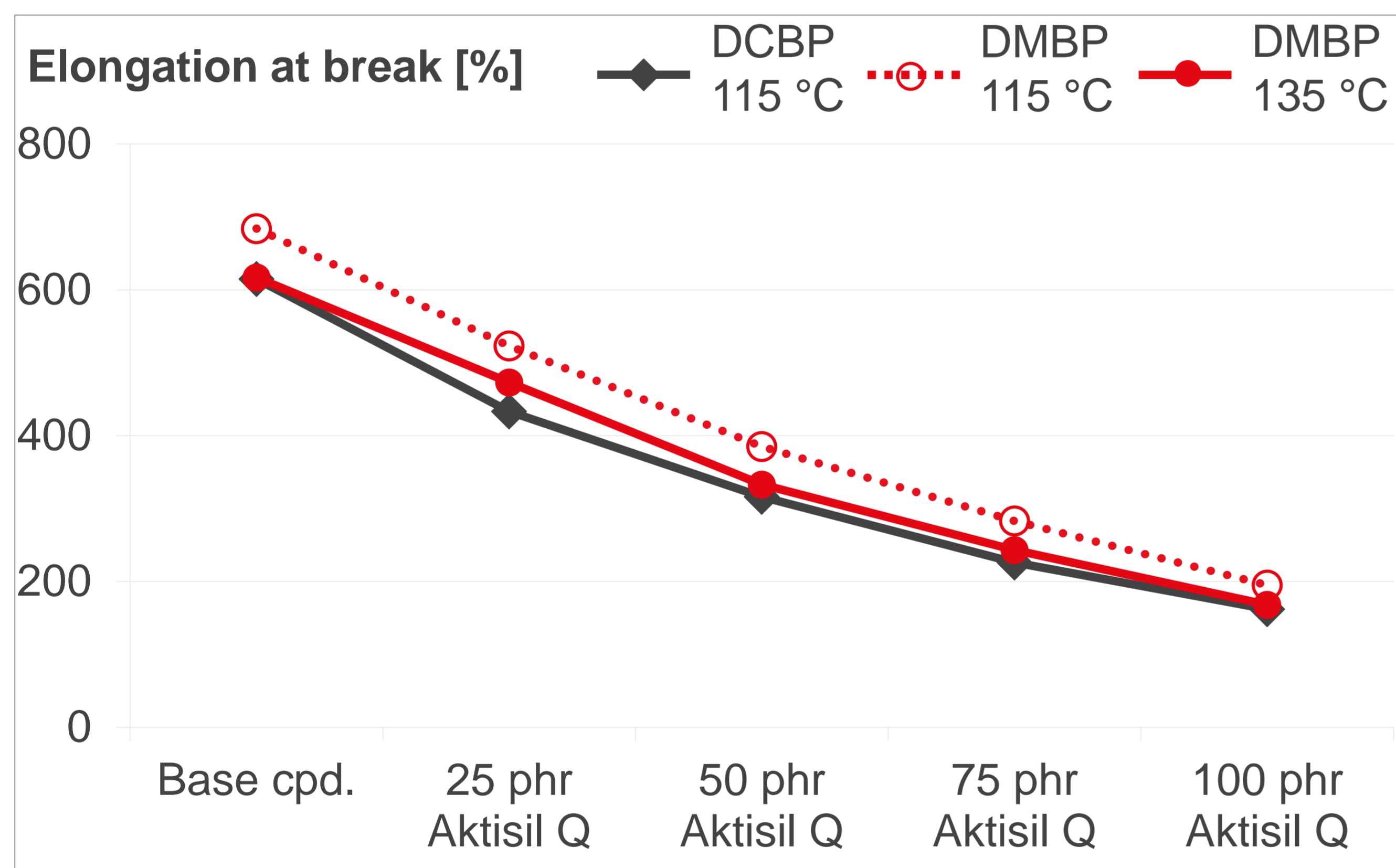
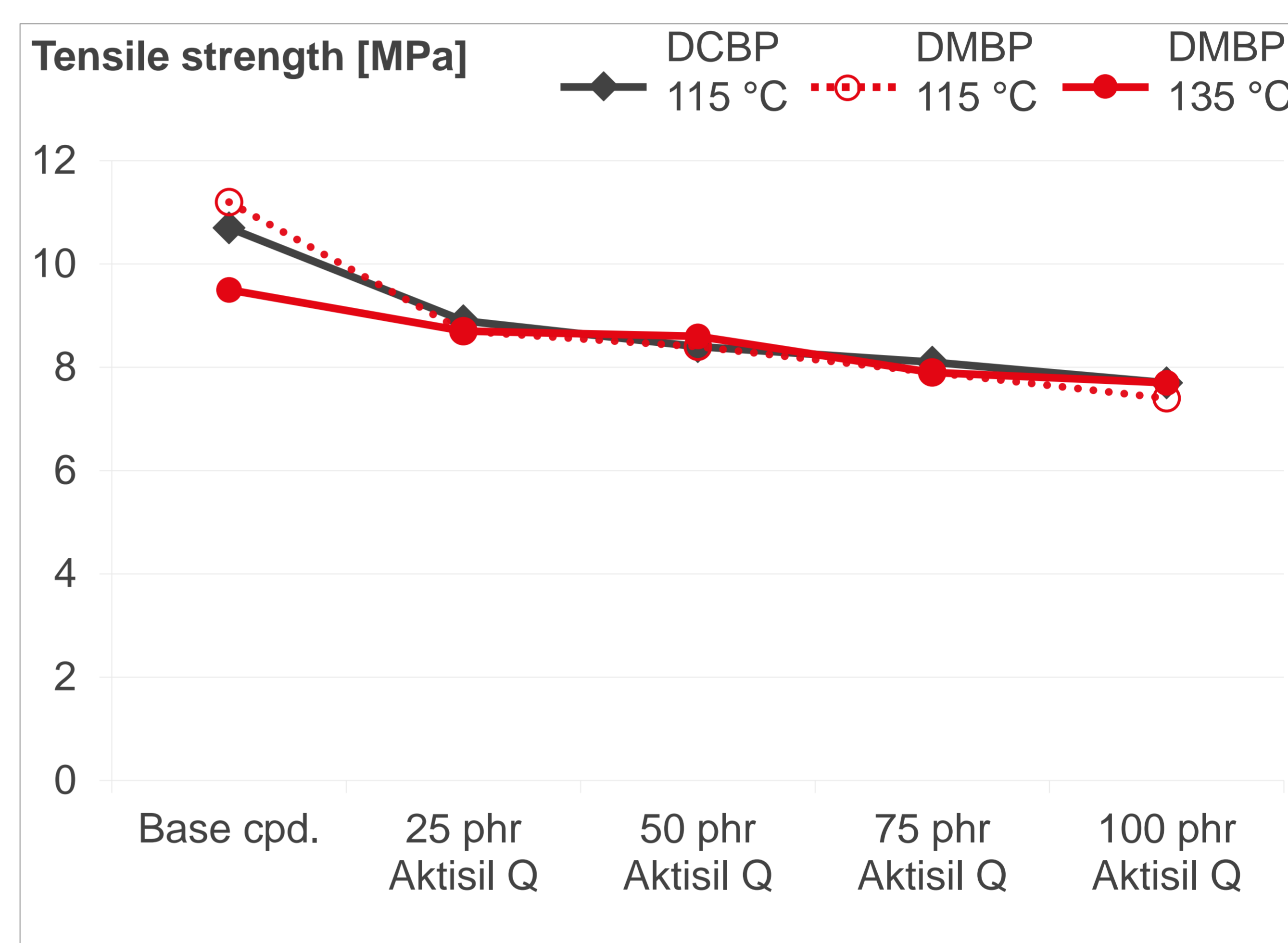
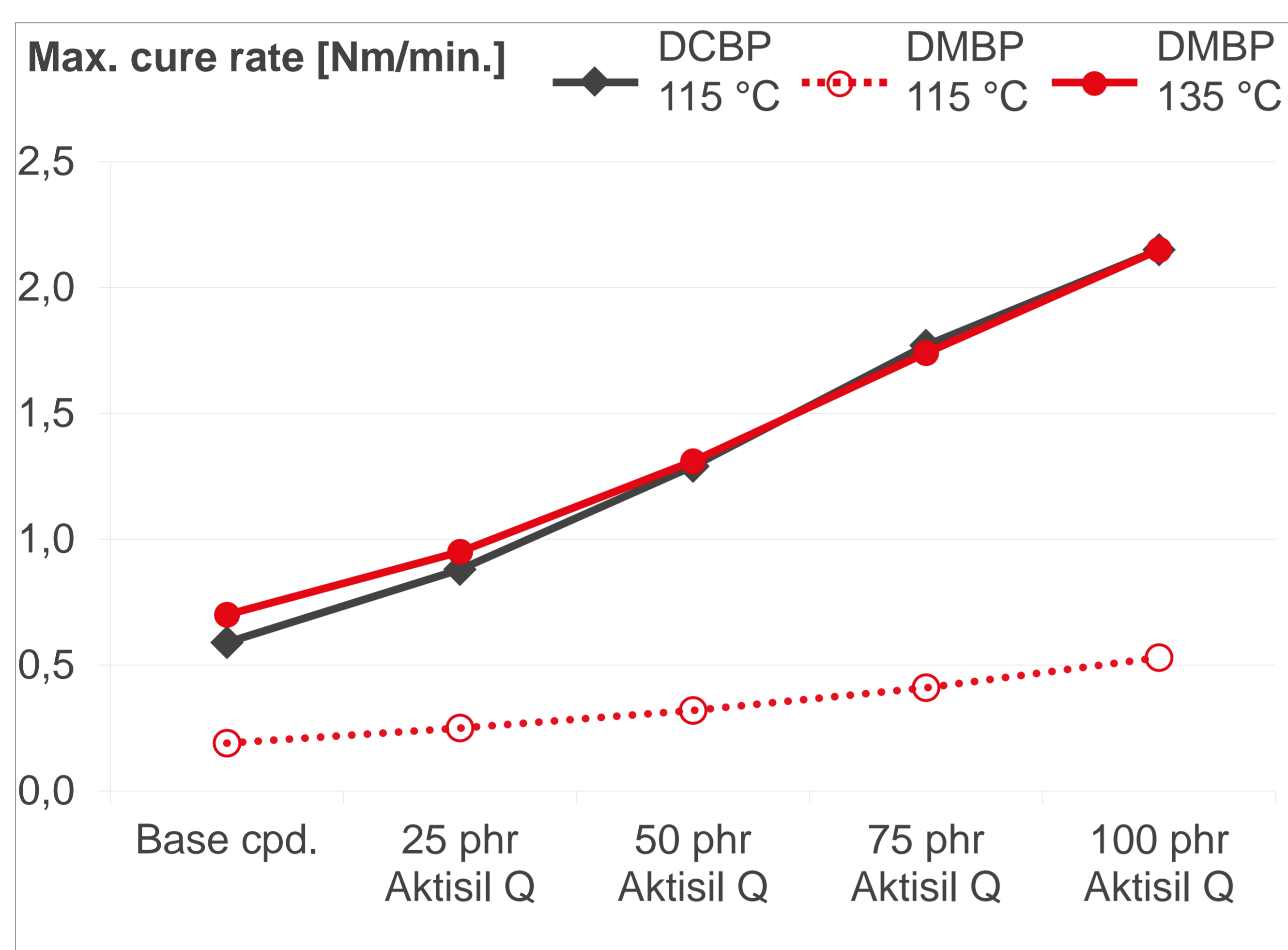
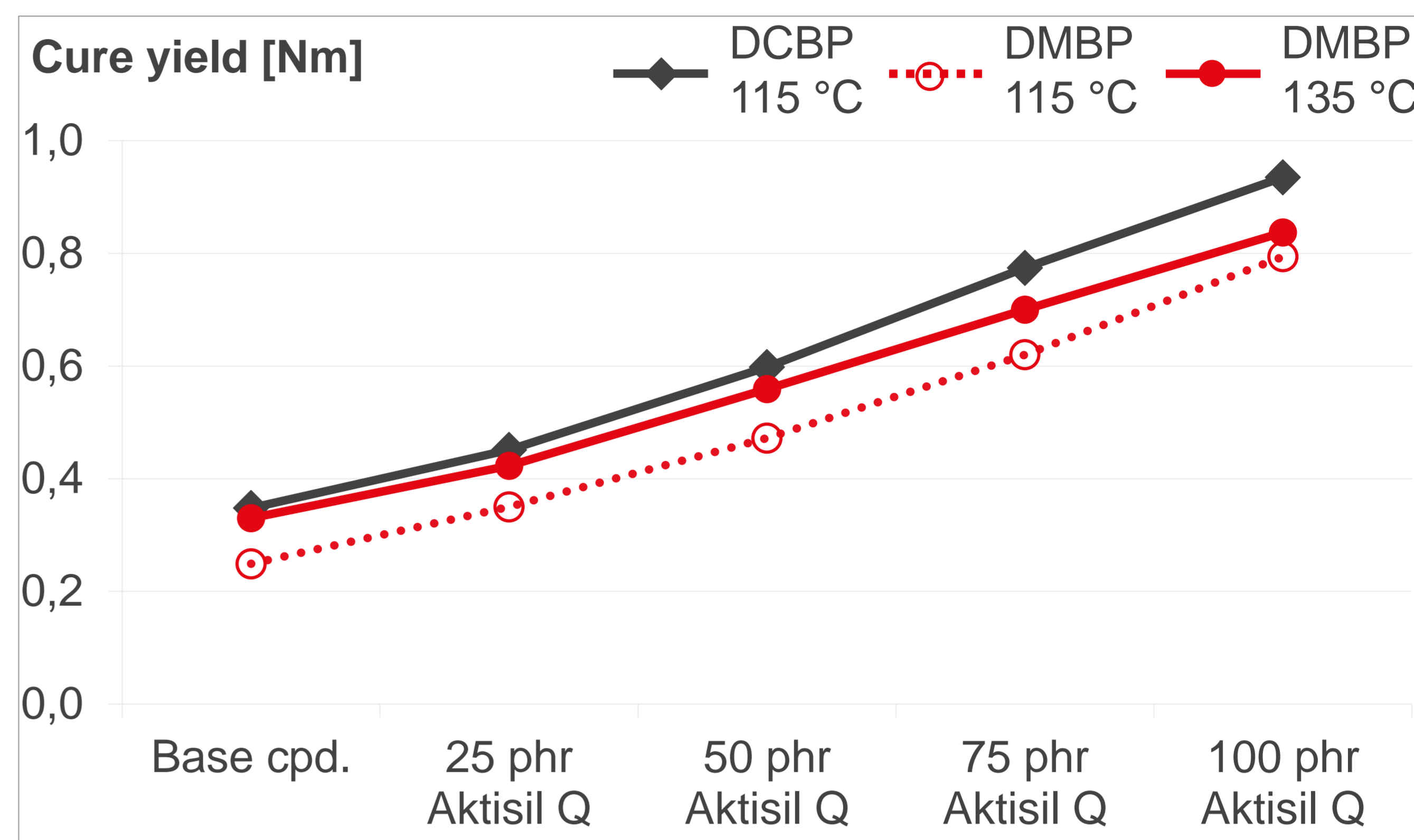
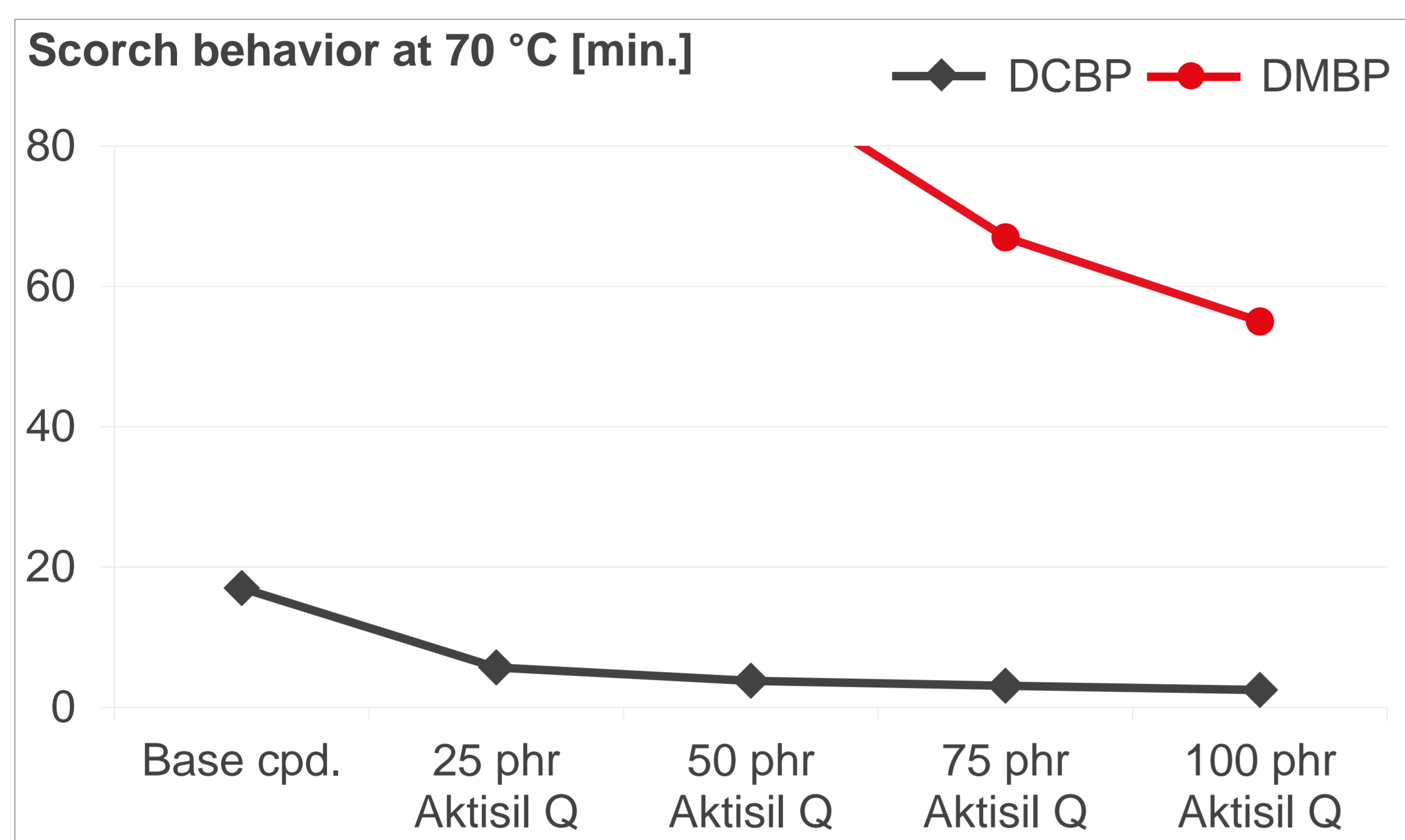
Experimental plan and specimens preparation



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



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