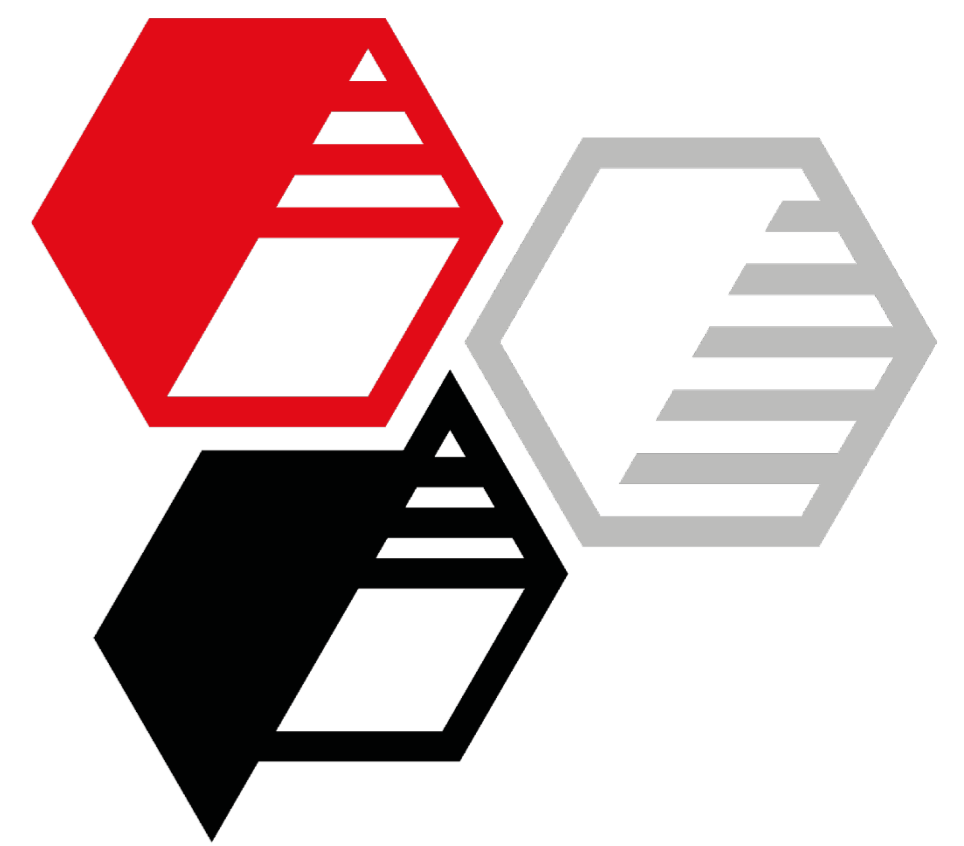
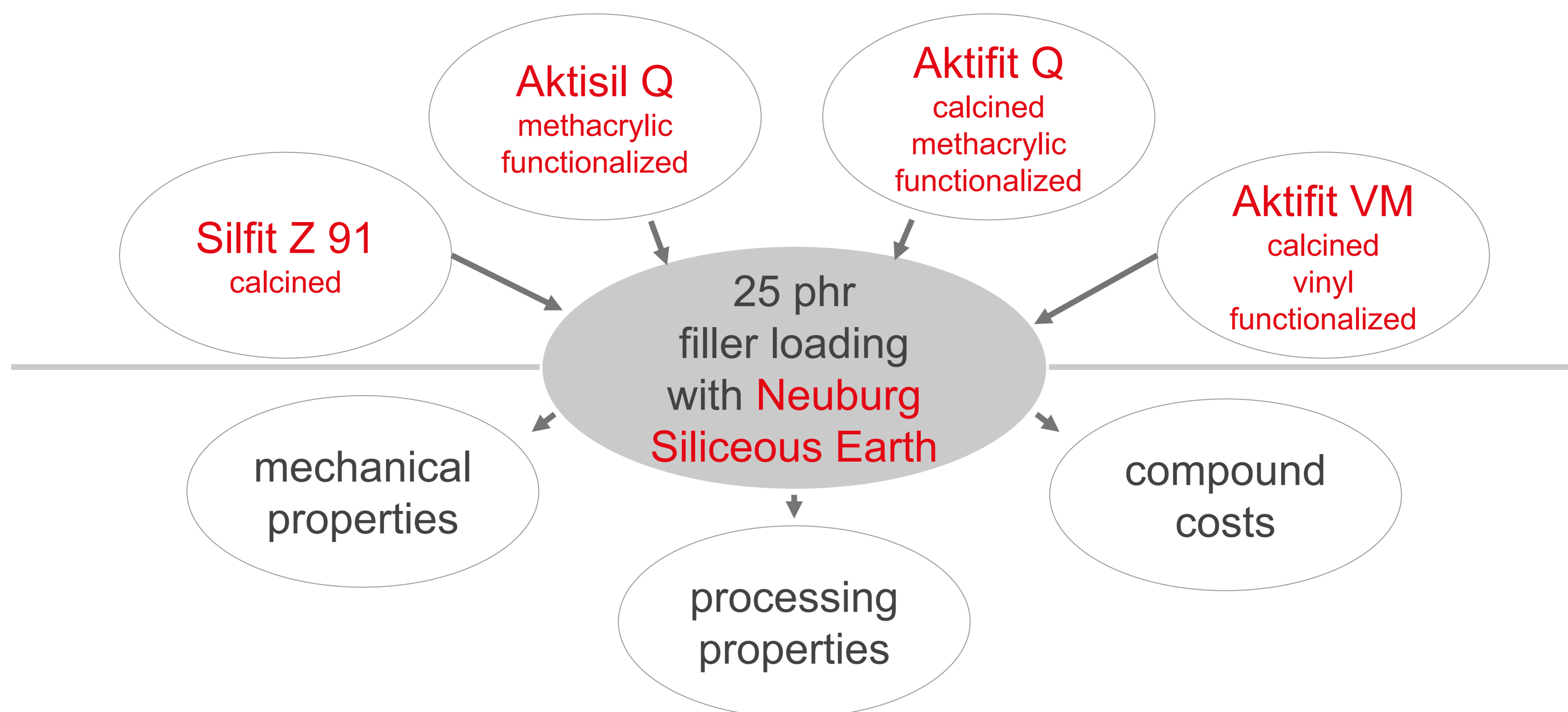


# Neuburg Siliceous Earth in addition-cured, high consistency silicone rubber



## Objective



## Formulation, curing & post-curing

Material	Description	phr
ELASTOSIL® R plus 4000/40 Wacker	two-component high consistency silicone rubber for molded articles hardness: 40 Shore A characteristics: high tear resistance	100
Neuburg Siliceous Earth (calcined/functionalized)	filler, based on corpuscular Neuburg Silica and lamellar kaolinite	25
Elastosil® AUX Batch PT 2 Wacker	platinum catalyst batch for molded articles	1.5

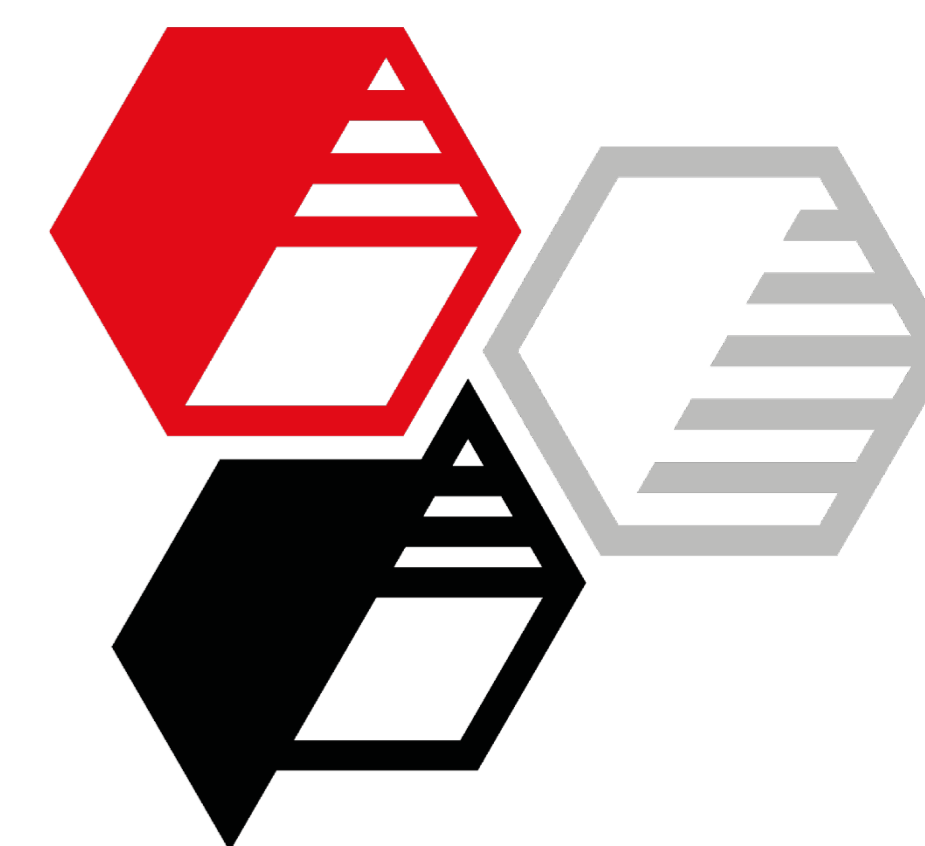
curing: 5 minutes at 150 °C  
post-cure: 4 hours at 200 °C

## Summary

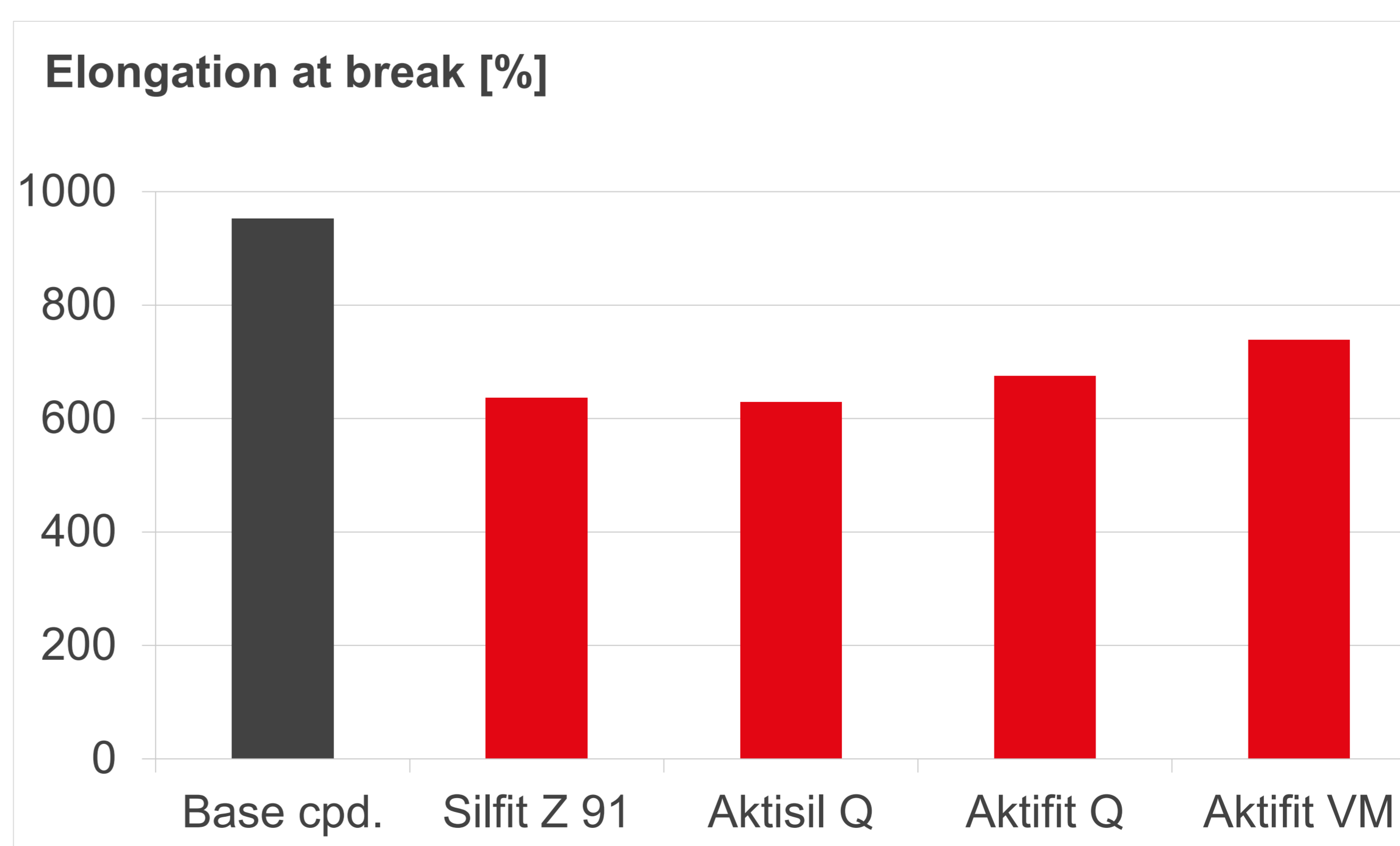
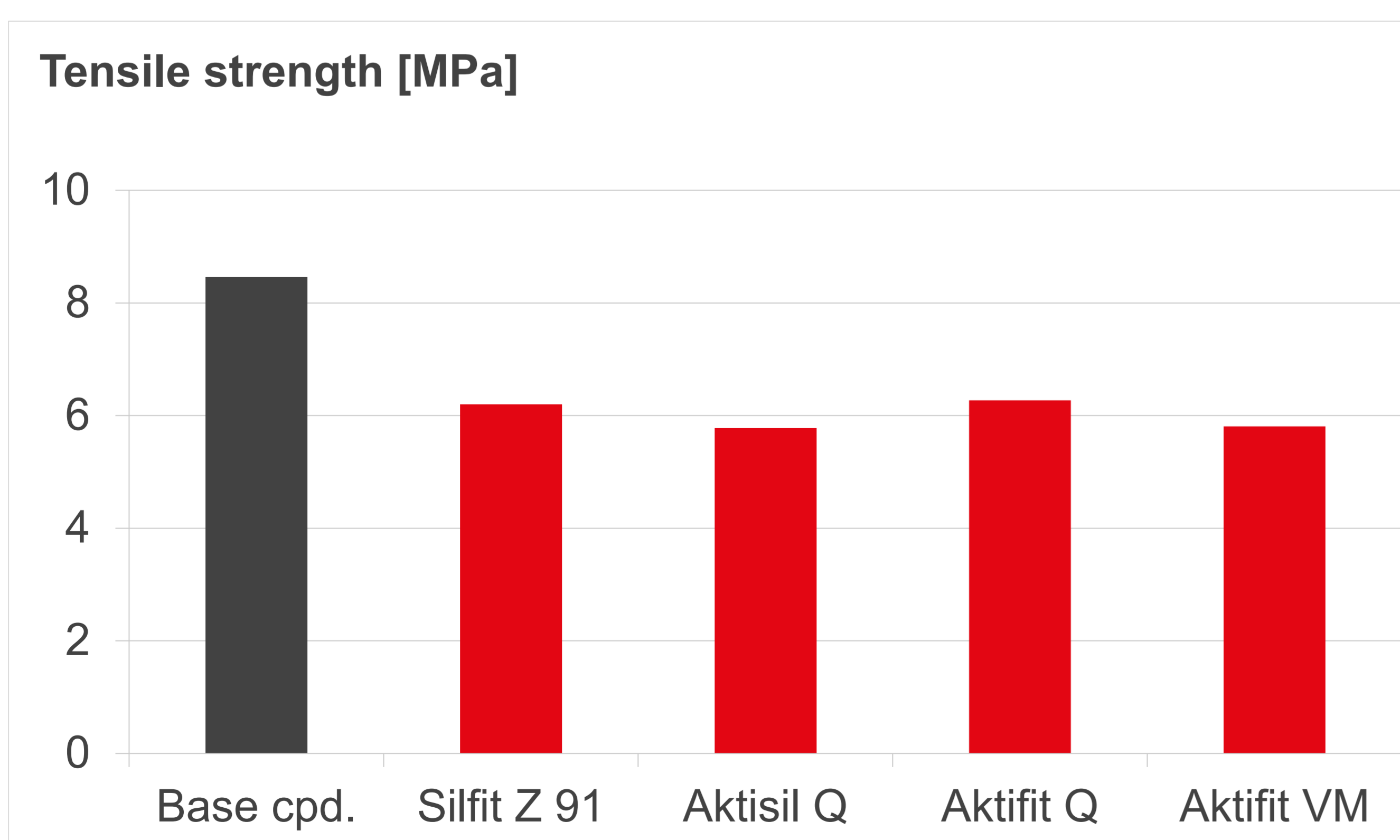
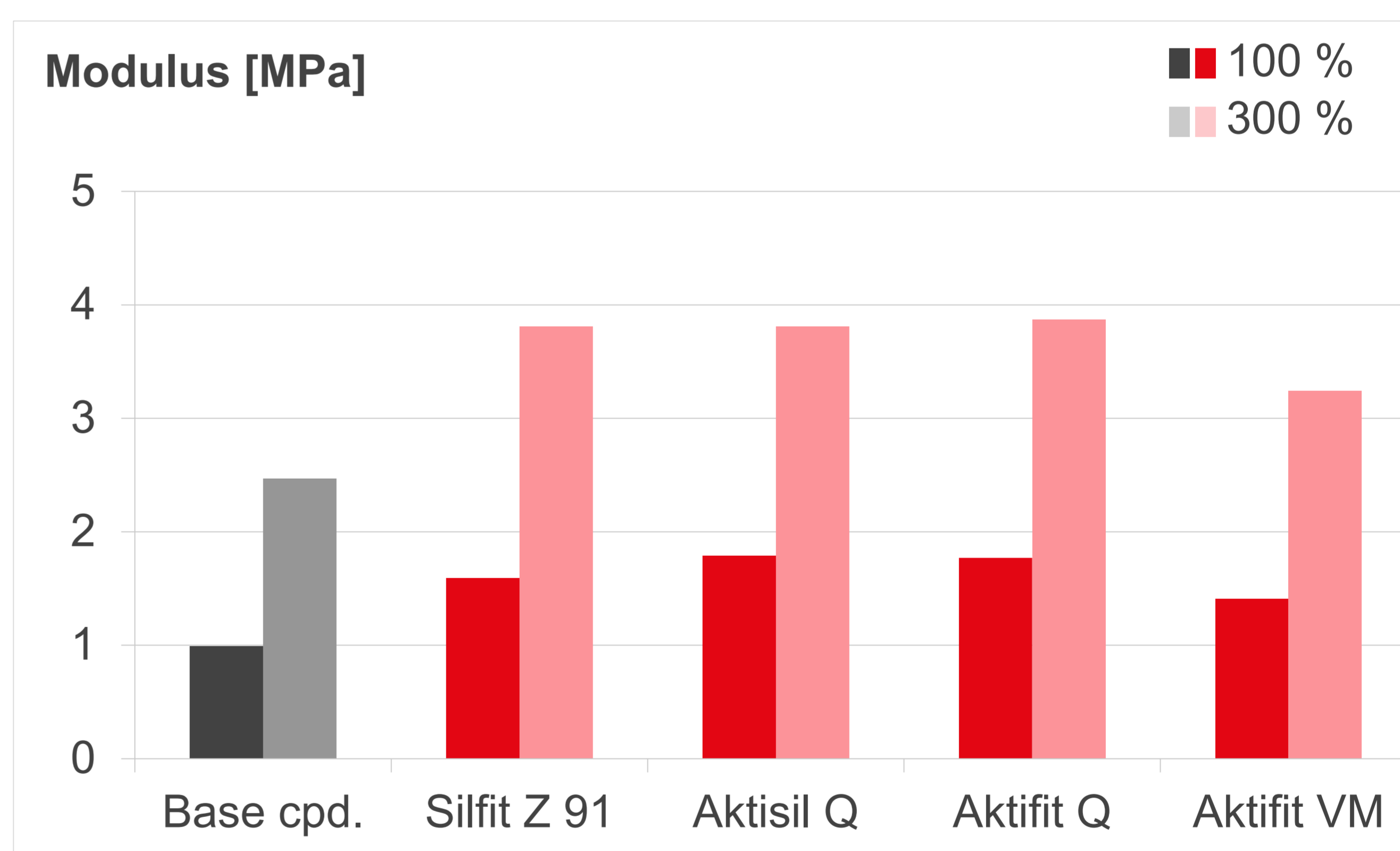
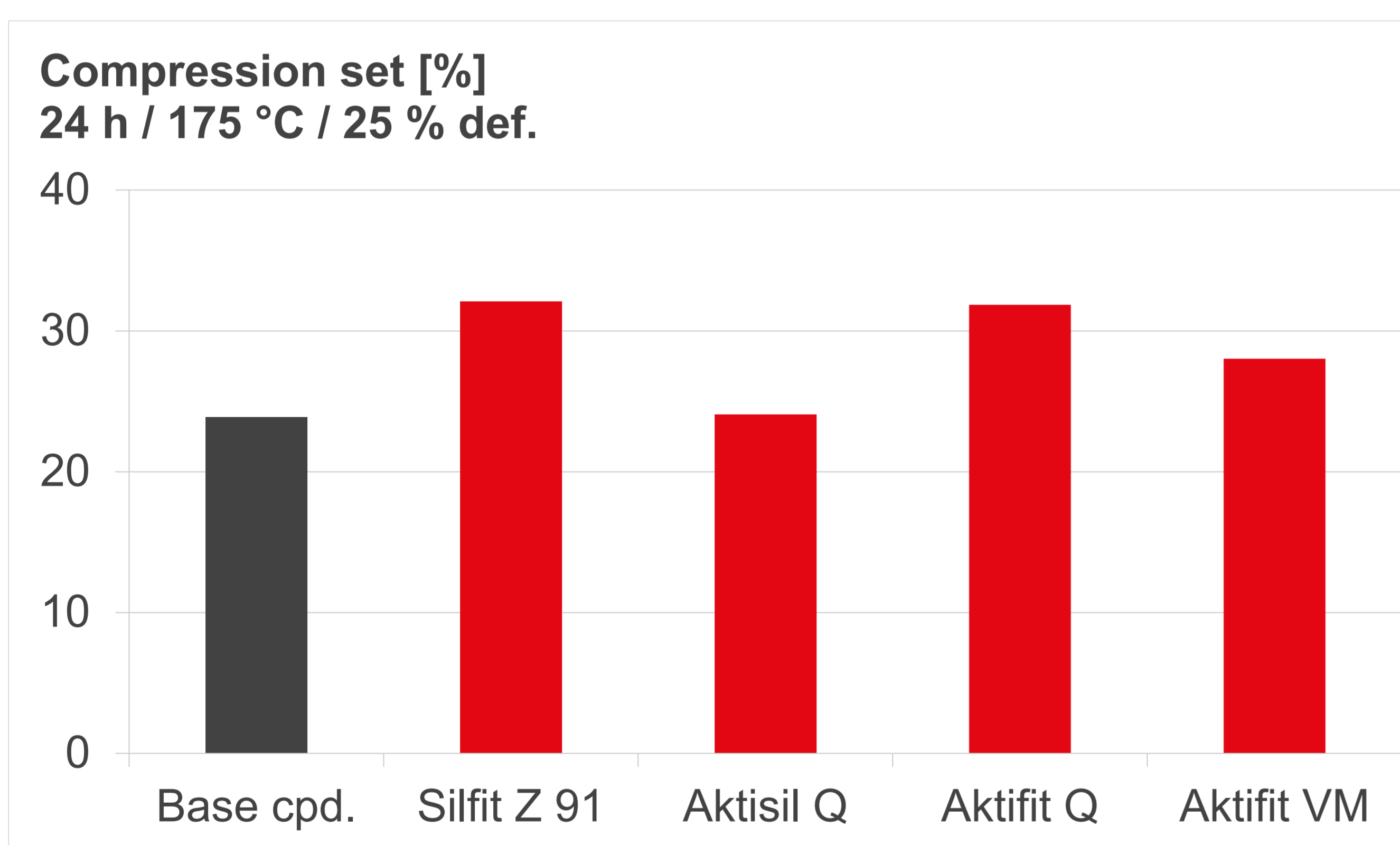
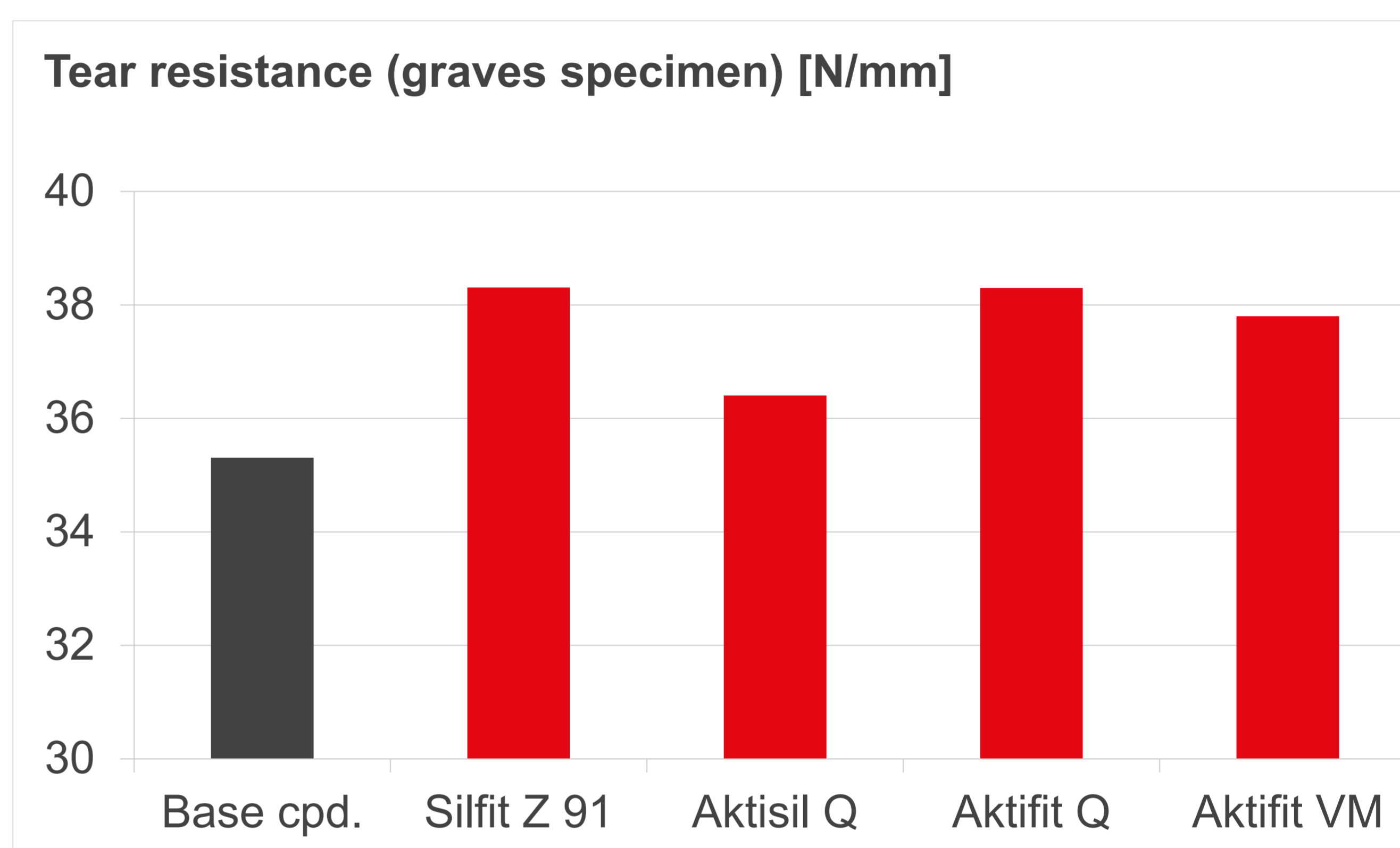
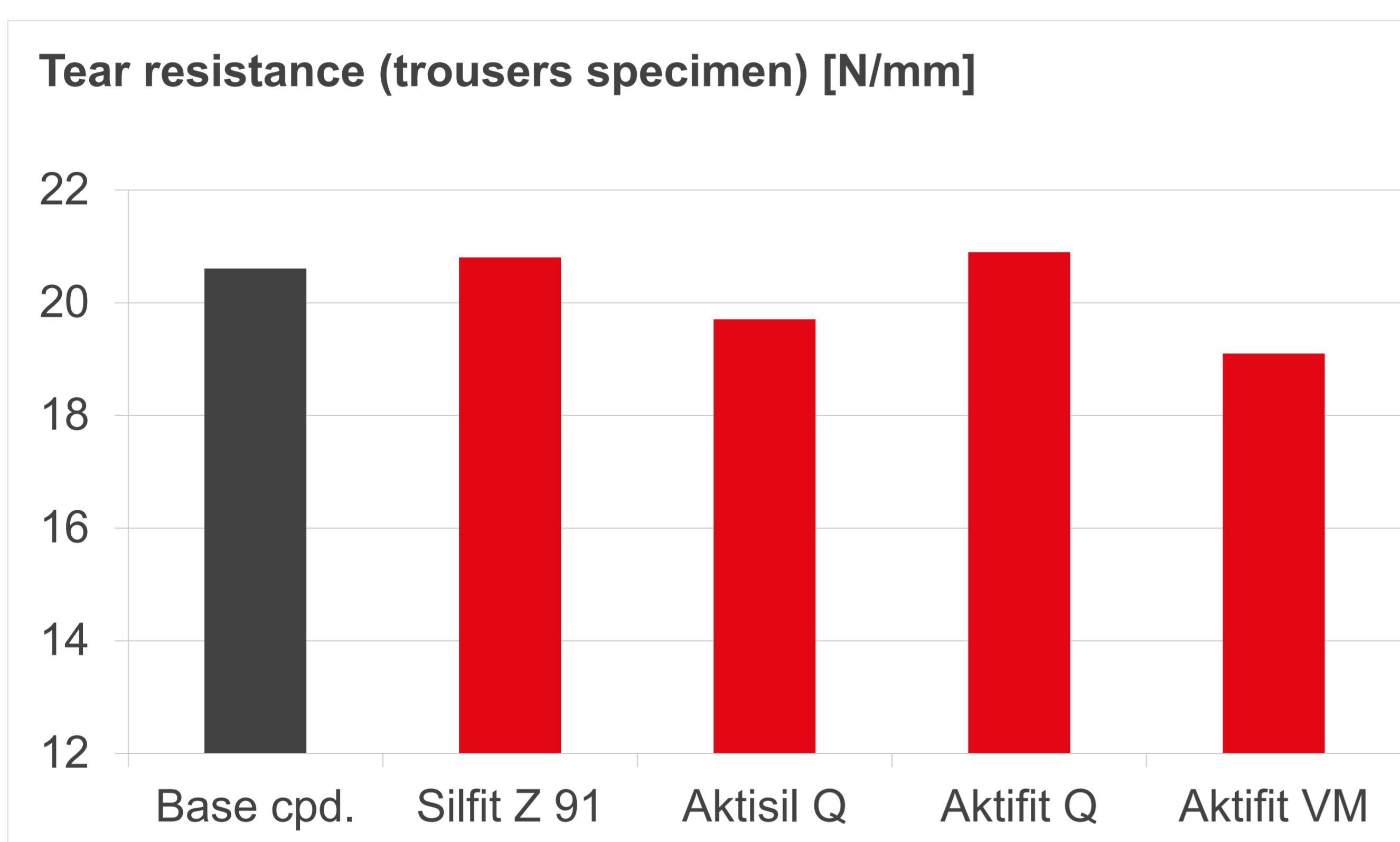
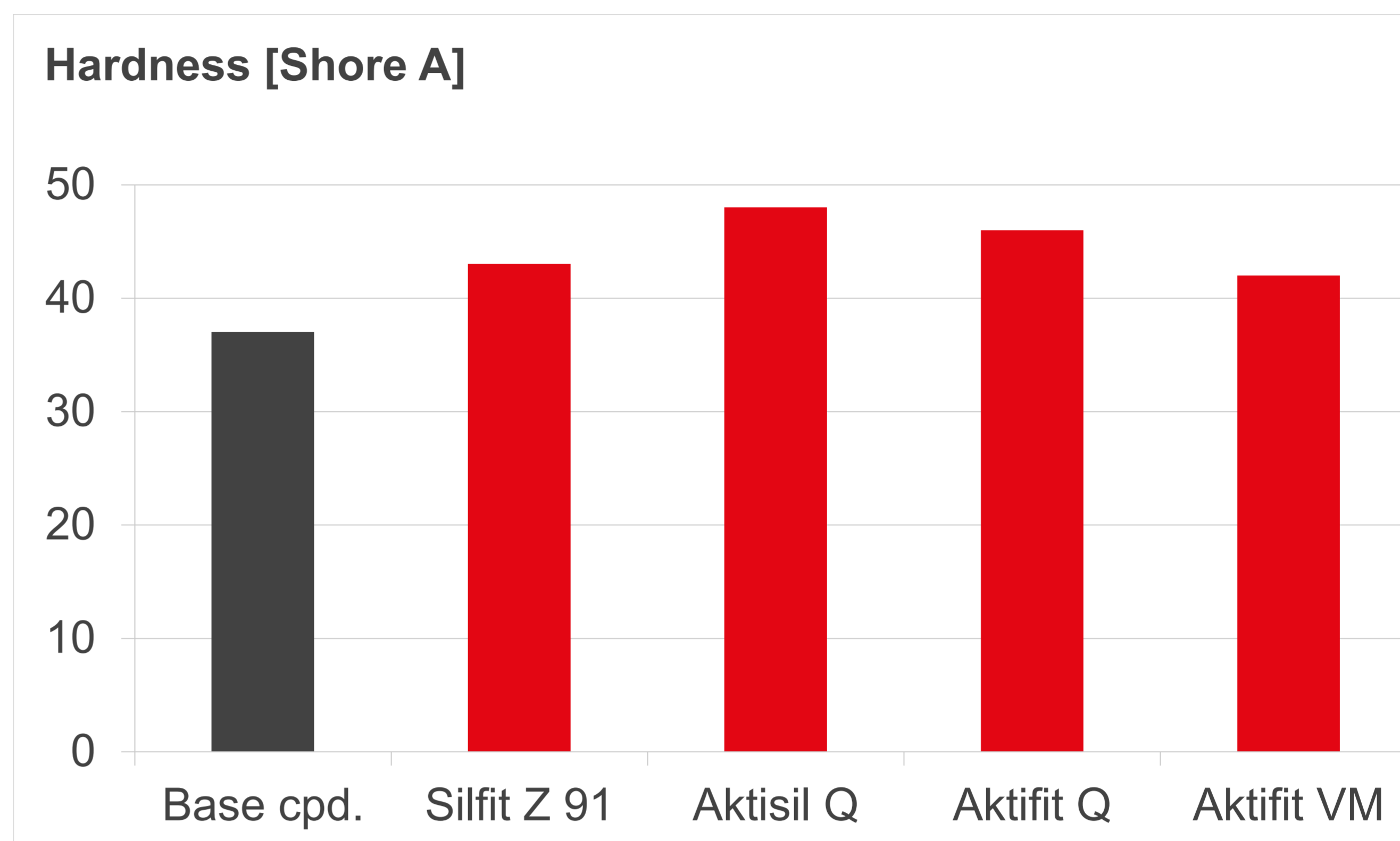
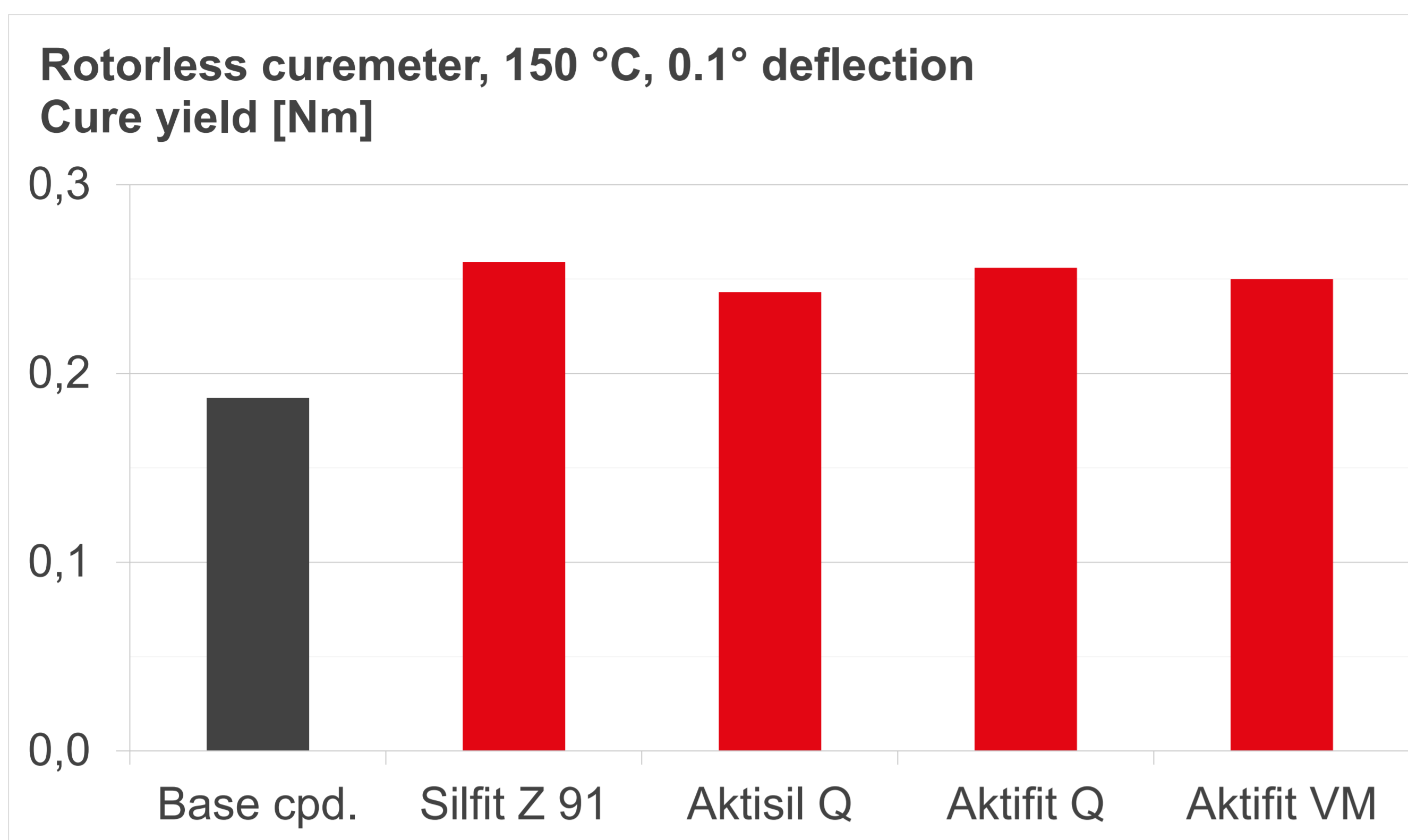
Product specific benefits with 25 phr **NSE** vs. base compound:

	Silfit Z 91	Aktisil Q	Aktifit Q	Aktifit VM
reduction of stickiness	+	+	+	+
intrinsic strength of the non-cured compounds (green strength)	+	+	+	+
torque minimum	=	=	=	=
cure yield	+	+	+	+
tear resistance trousers	=		=	
tear resistance graves	+	=	+	+
modulus	+	+	+	+
compression set		=		
hot air resistance		+		
oil resistance	+	+	+	+
compound cost reduction	+	+	+	+
+ ≈ better than base compound      + ≈ best product      = ≈ comparable to base compound				

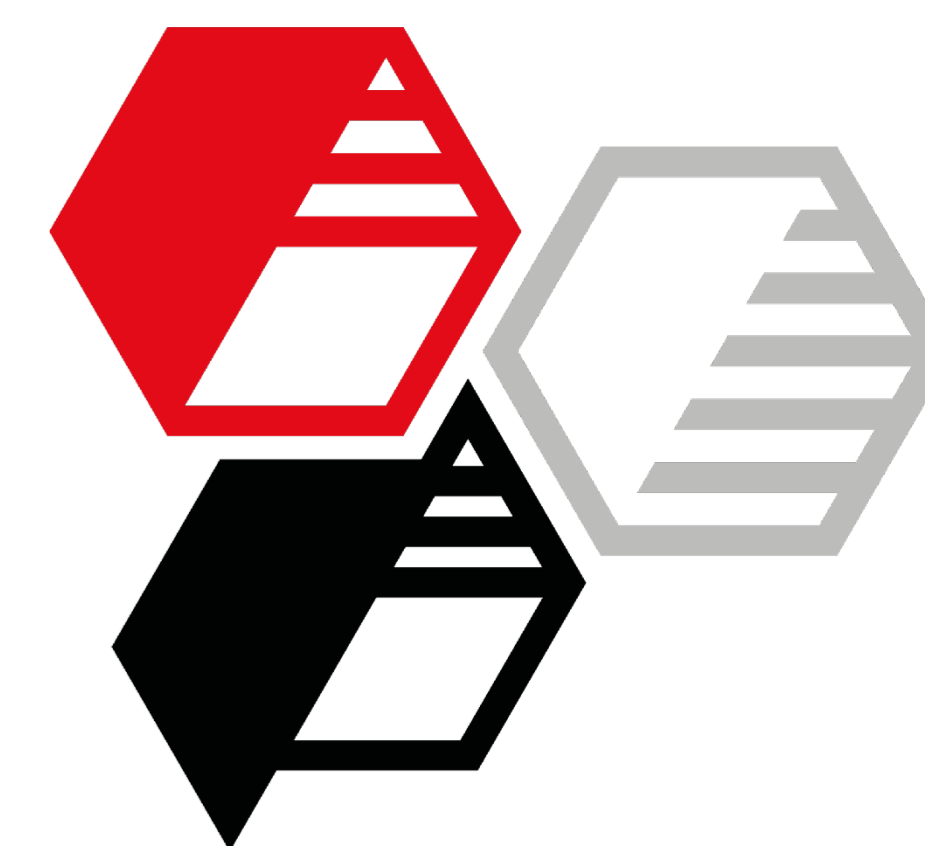
# Neuburg Siliceous Earth in addition-cured, high consistency silicone rubber



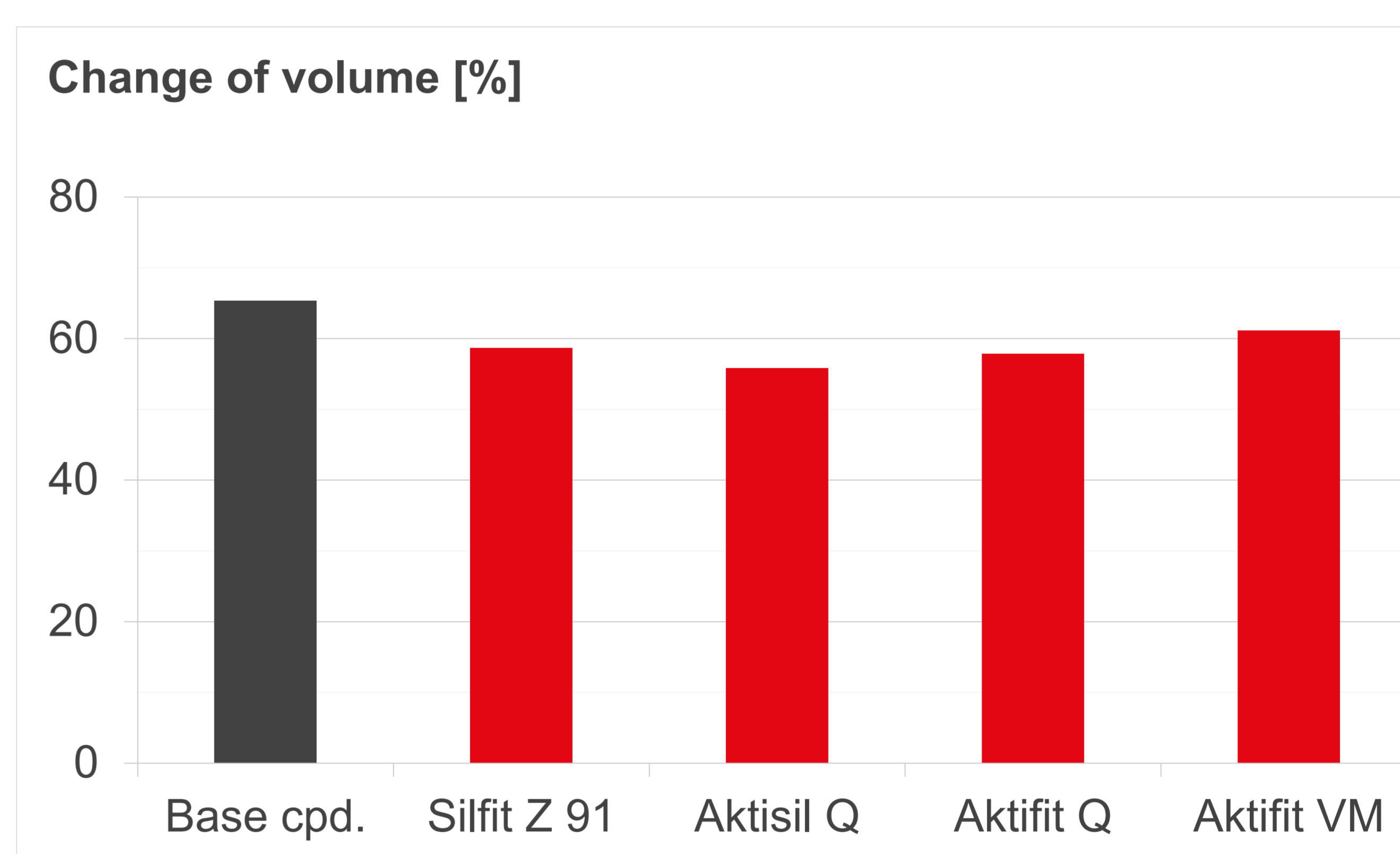
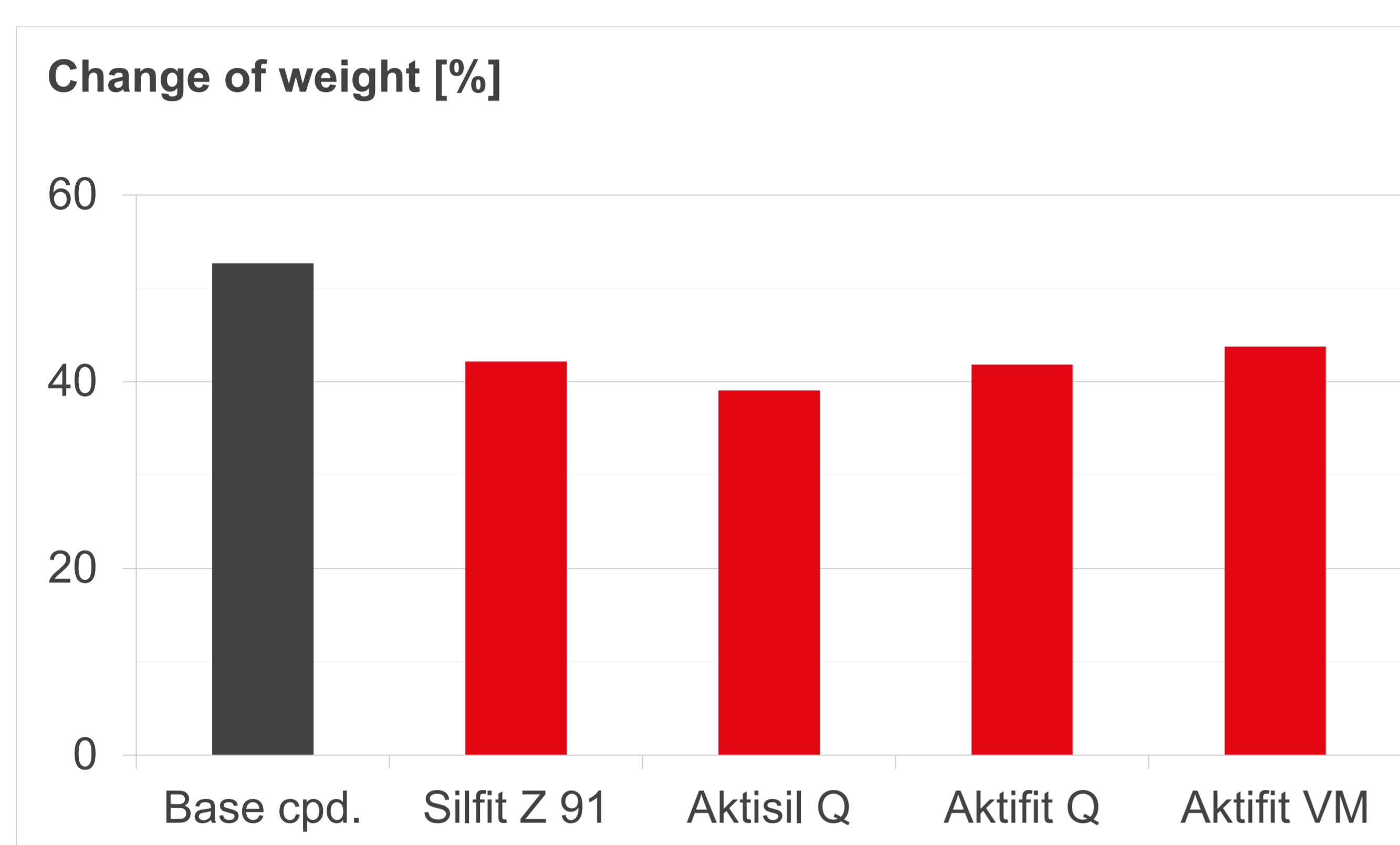
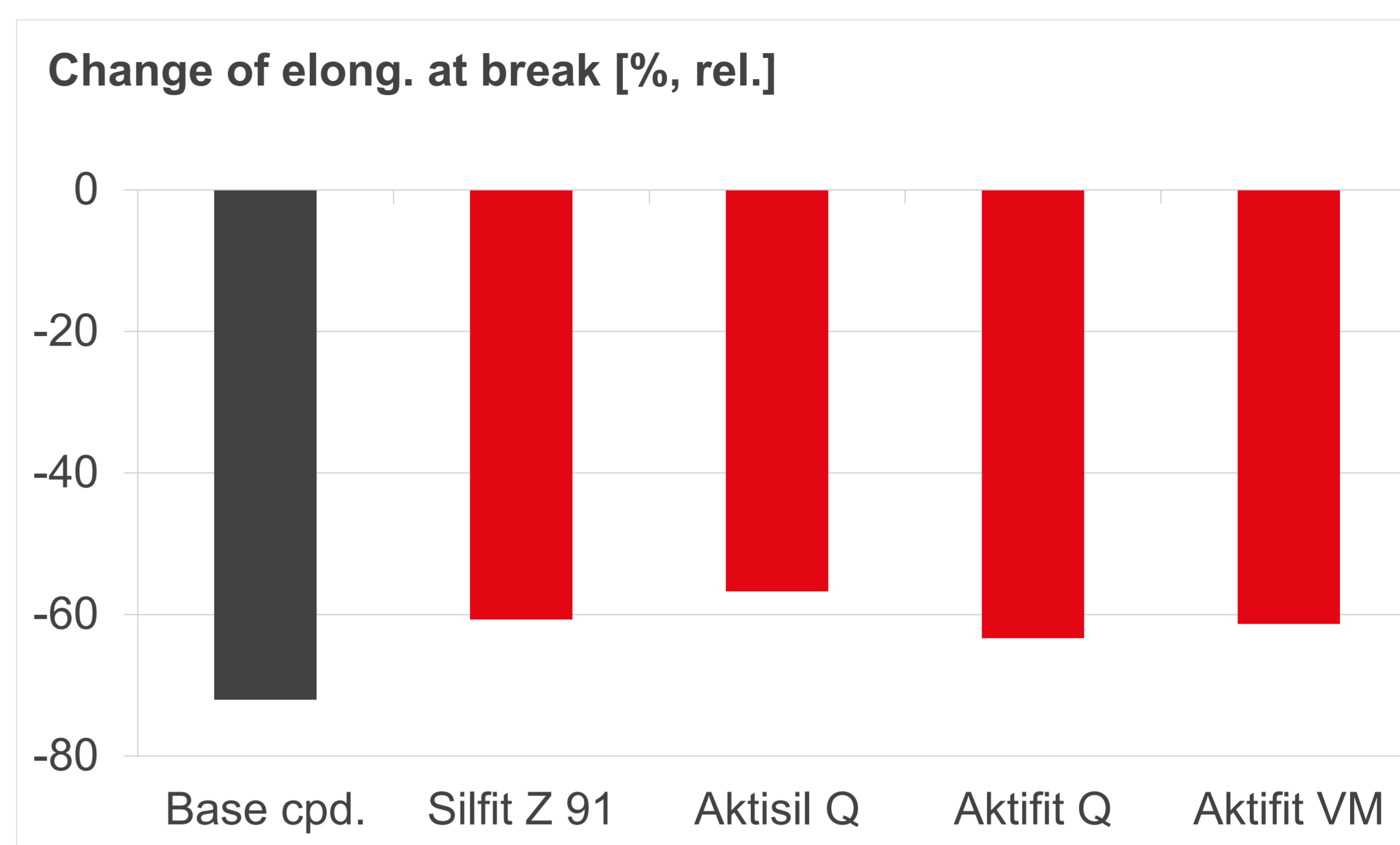
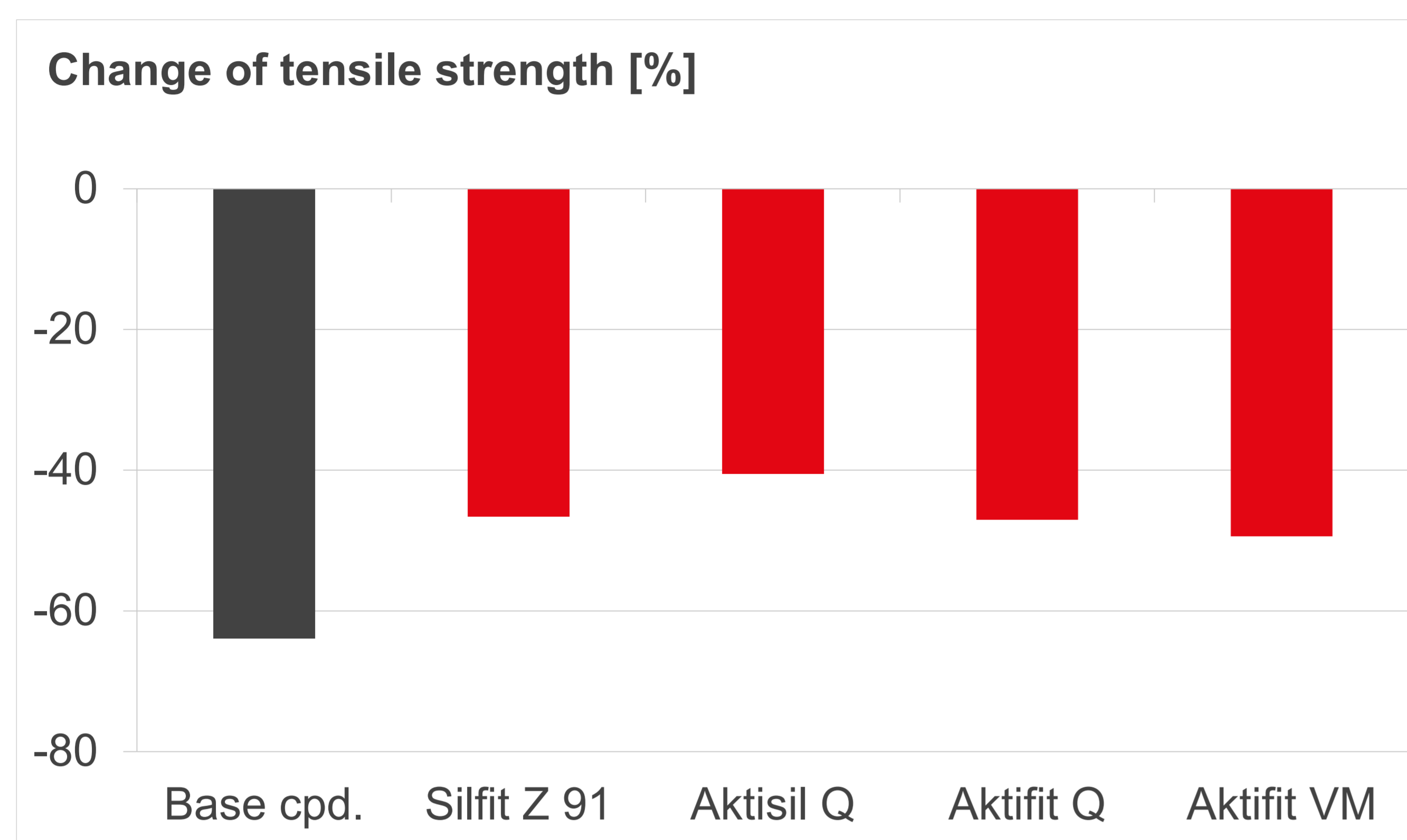
## Results



# Neuburg Siliceous Earth in addition-cured, high consistency silicone rubber



## Results - Immersion in reference oil IRM 903 72 h / 150 °C



## Results - Hot air aging 168 h / 200 °C

