

# NEUBURG SILICEOUS EARTH IN ANTIVIBRATION MOUNTS

## FORMULATION

	in phr	
NR SMR 20	100.0	100.0
Stearic acid	1.0	1.0
Zinkoxyd aktiv	3.0	3.0
Sunthene 4240	5.0	5.0
Carbon Black N 774	50.0	25.0
<b>Neuburg Siliceous Earth</b>	-	<b>50.0</b>
Vulkanox 4010 NA/LG	1.0	1.0
Vulkanox HS/LG	0.5	0.5
Perkacit TMTD	0.5	0.5
Santocure CBS	3.0	3.0
Sulfur	0.3	0.3
<b>Total</b>	<b>164.3</b>	<b>189.3</b>

## NEUBURG SILICEOUS EARTH GRADES

**Sillitin  
Z 86**

**Aktisil  
MM**

**Aktisil  
PF 216**

## SUMMARY

Neuburg Siliceous Earth offers benefits with respect to

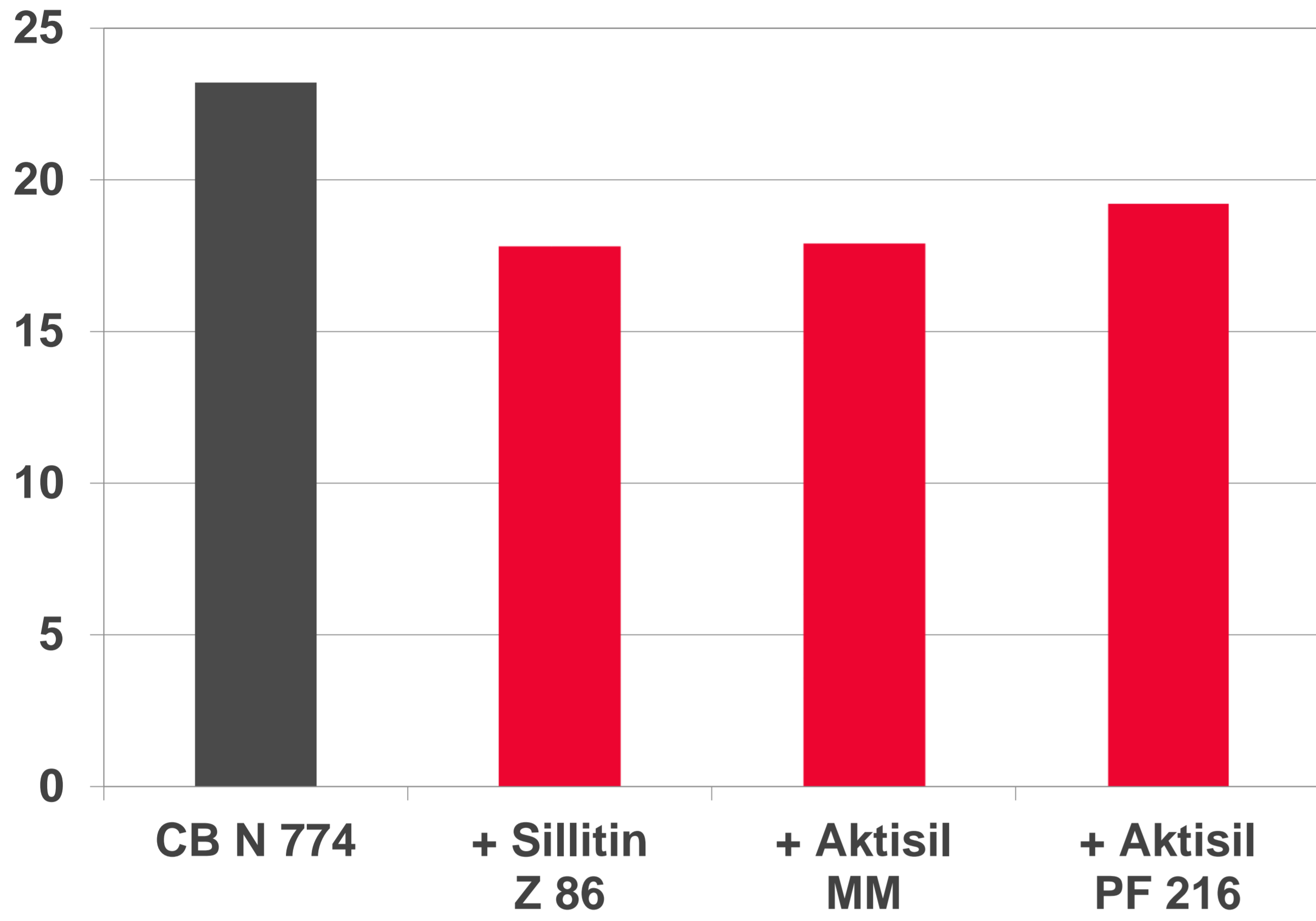
- lower Mooney viscosity
- lower compression set, especially with Aktisil PF 216
- higher electrical insulation properties
- lower temperature dependance of the dynamical properties
- lower dynamic stiffening



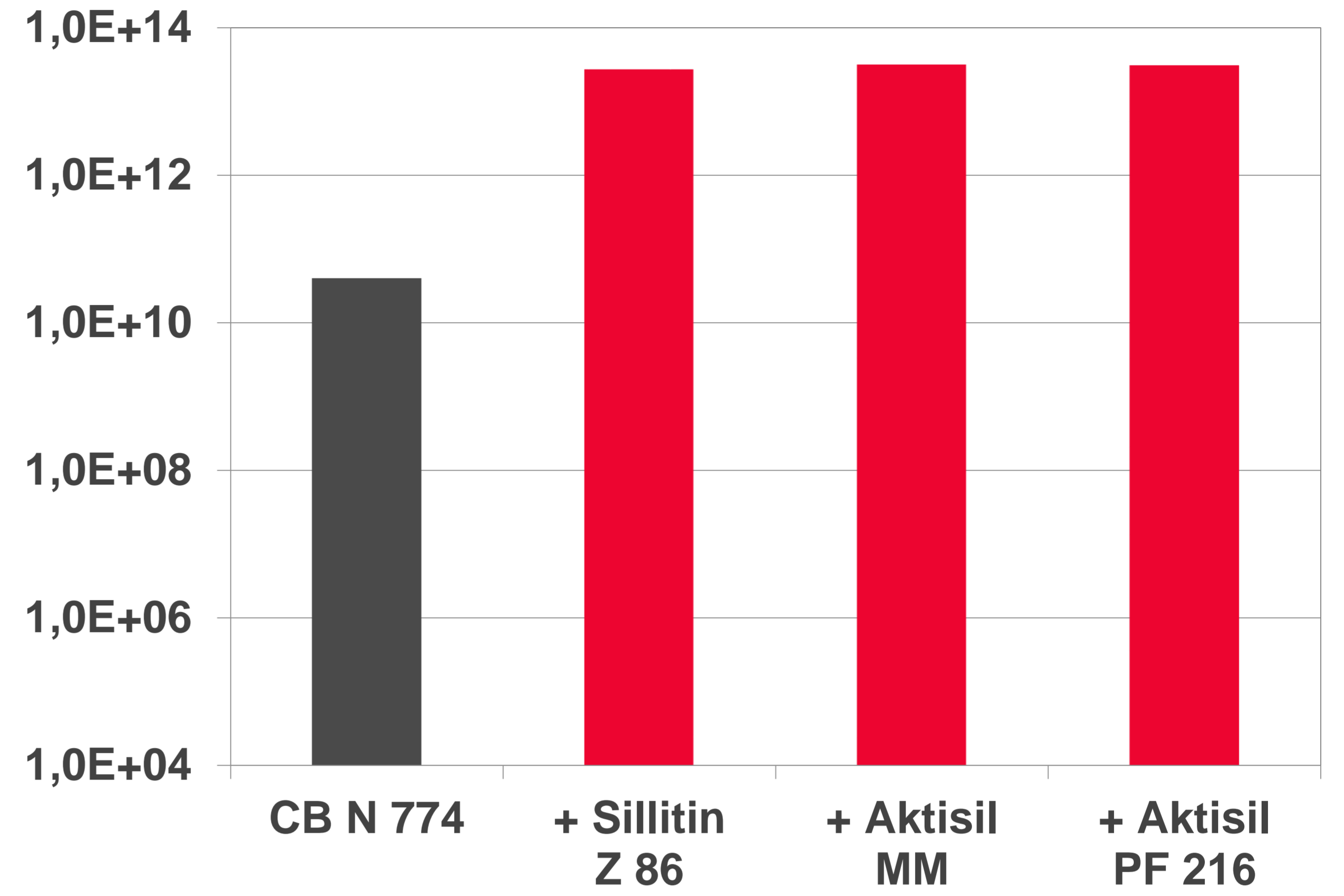
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## RESULTS

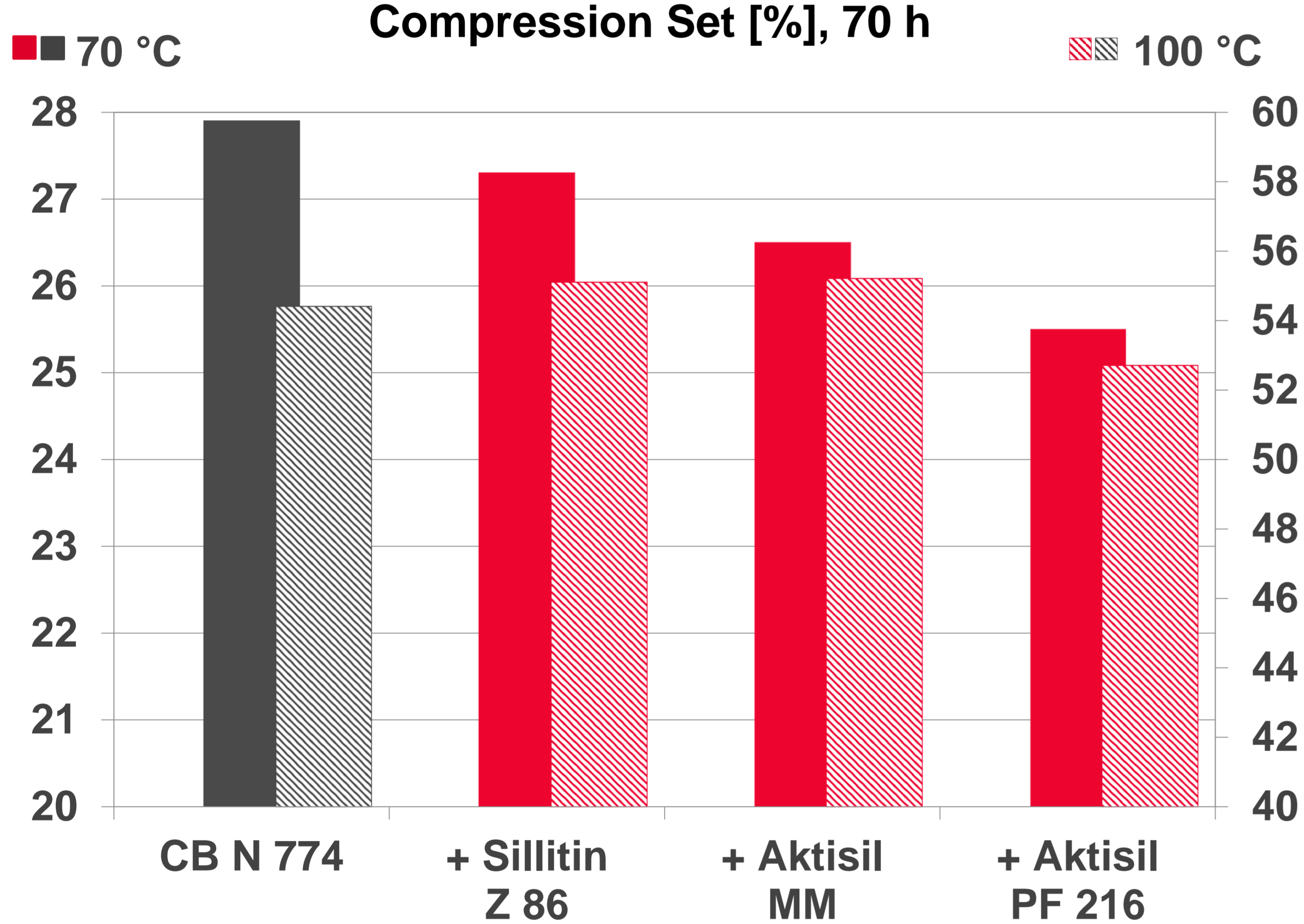
Mooney Viscosity [MU]



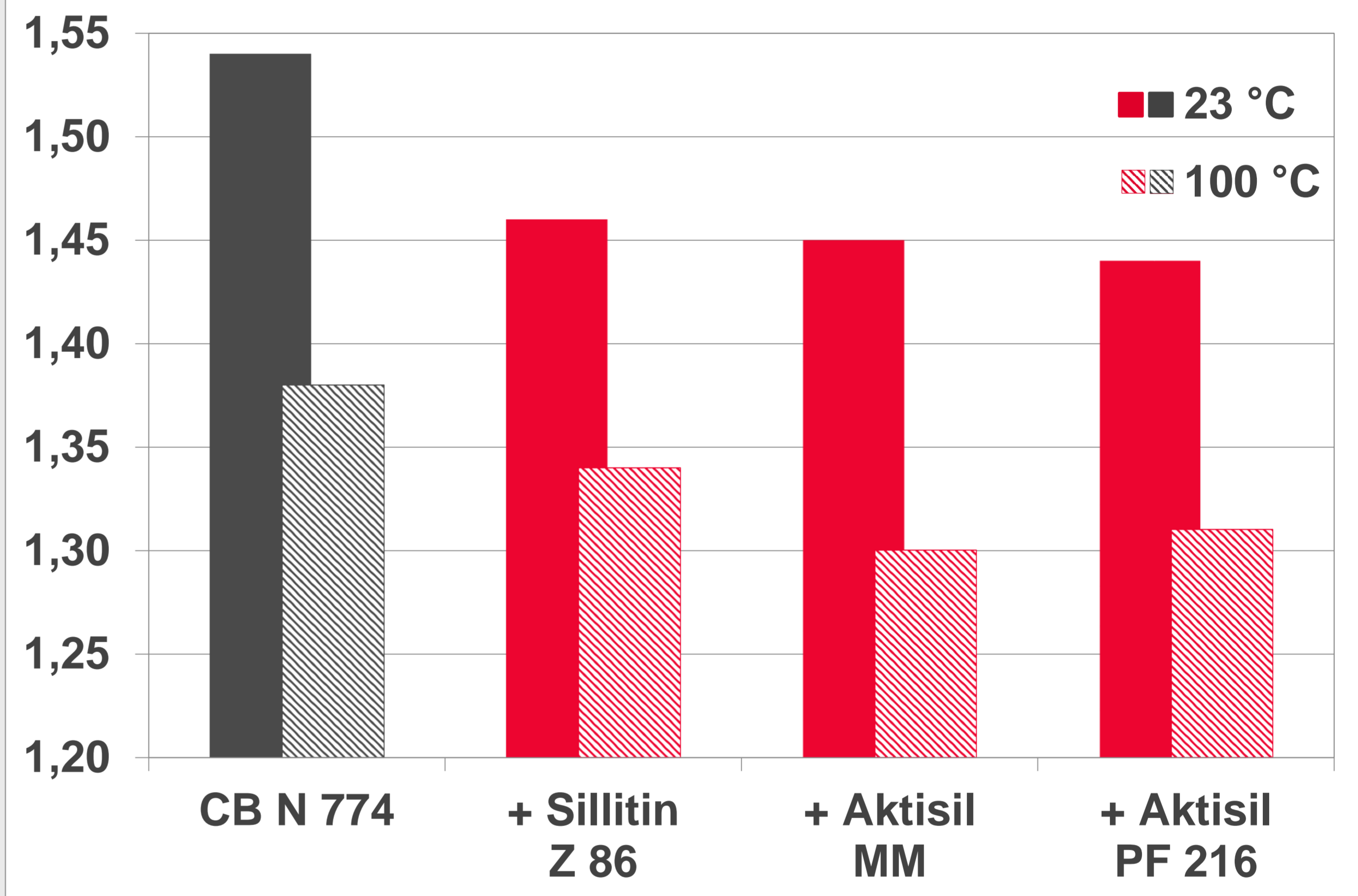
Volume Resistivity [ $\Omega \cdot \text{cm}$ ]



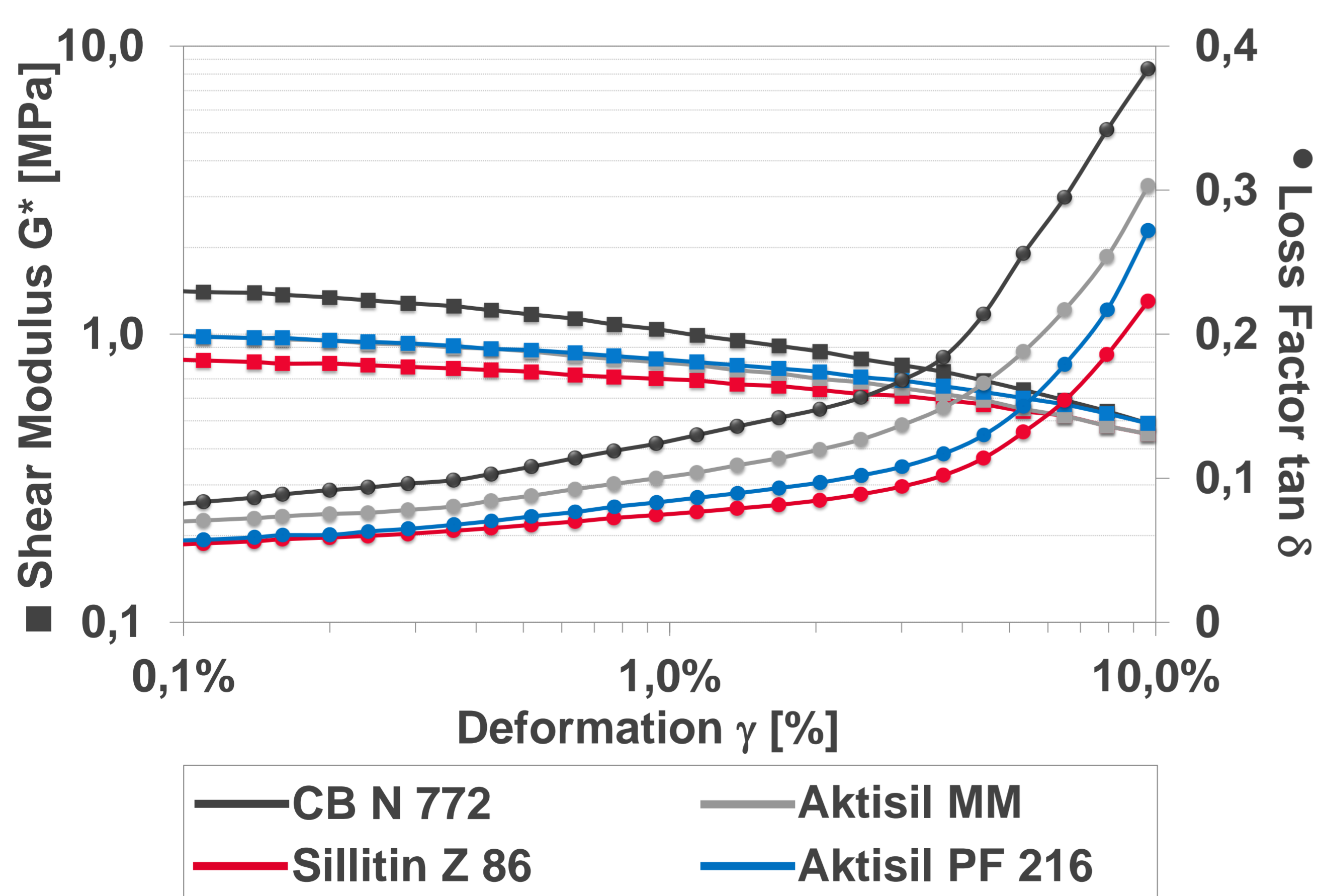
Compression Set [%], 70 h



Dynamic Stiffening  
Quotient of  $G^*$  80 Hz / 0.008 Hz



Amplitude Sweep at 23 °C,  $f = 0.16$  Hz



Change of Shear Modulus in Frequency Sweep  
23 °C vs. 100 °C, Deformation  $\gamma = 0.3$  %

