

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
Neuburg Siliceous Earth	-	50.0
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
Total	164.3	189.3

NEUBURG SILICEOUS EARTH GRADES

**Sillitin
Z 86**

**Aktisil
MM**

**Aktisil
PF 216**

SUMMARY

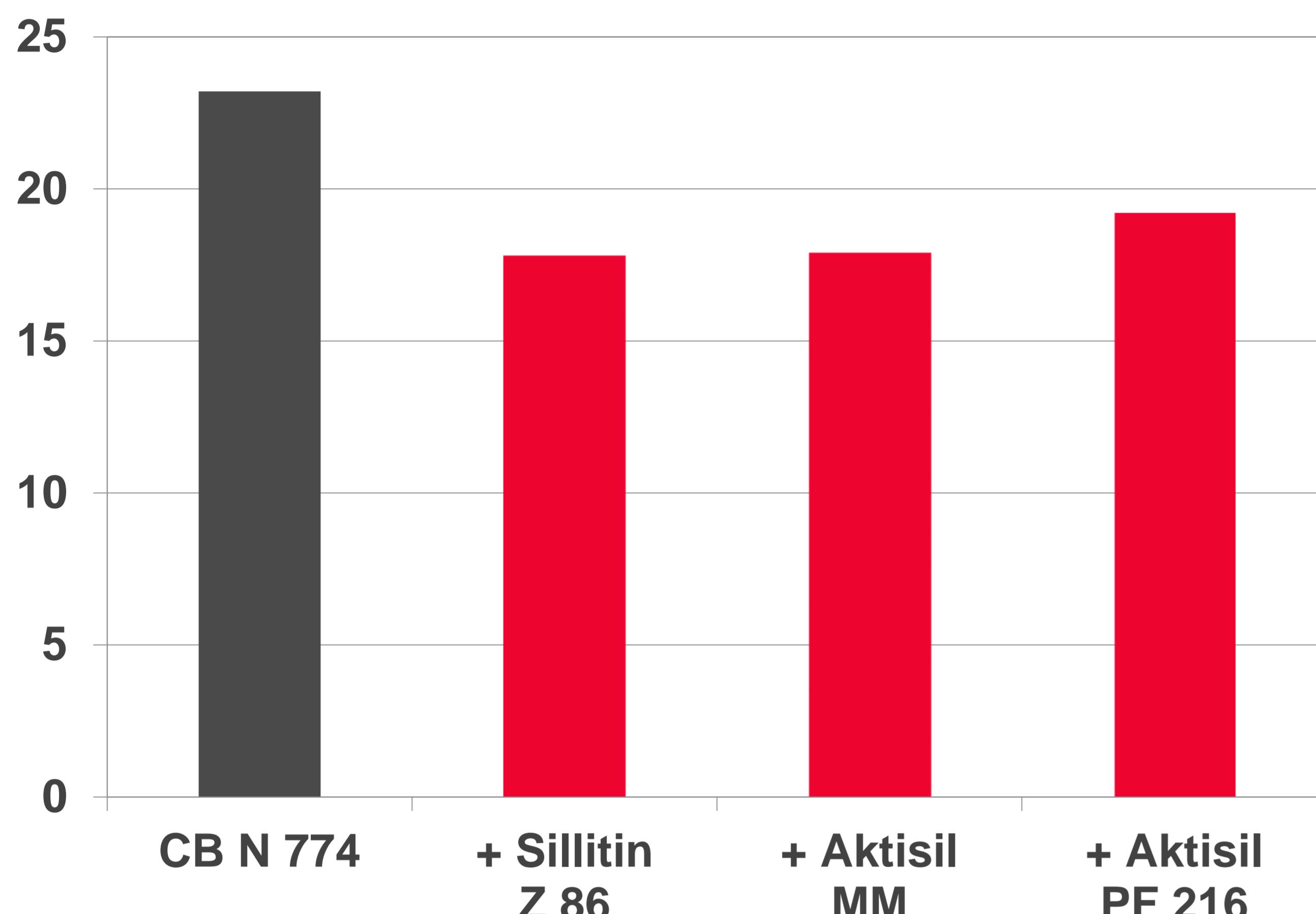
Neuburg Siliceous Earth offers benefits with respect to

- 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

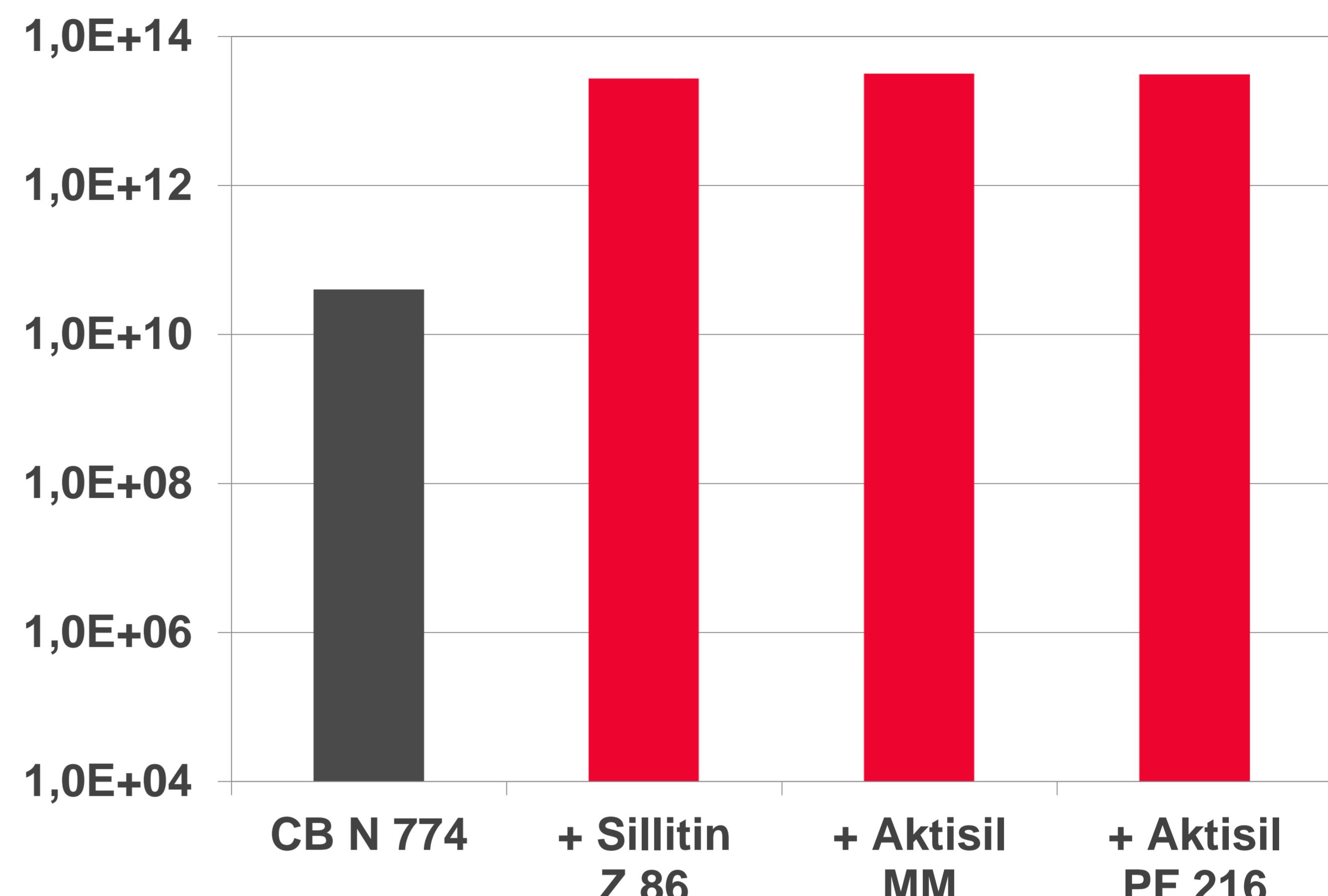
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RESULTS

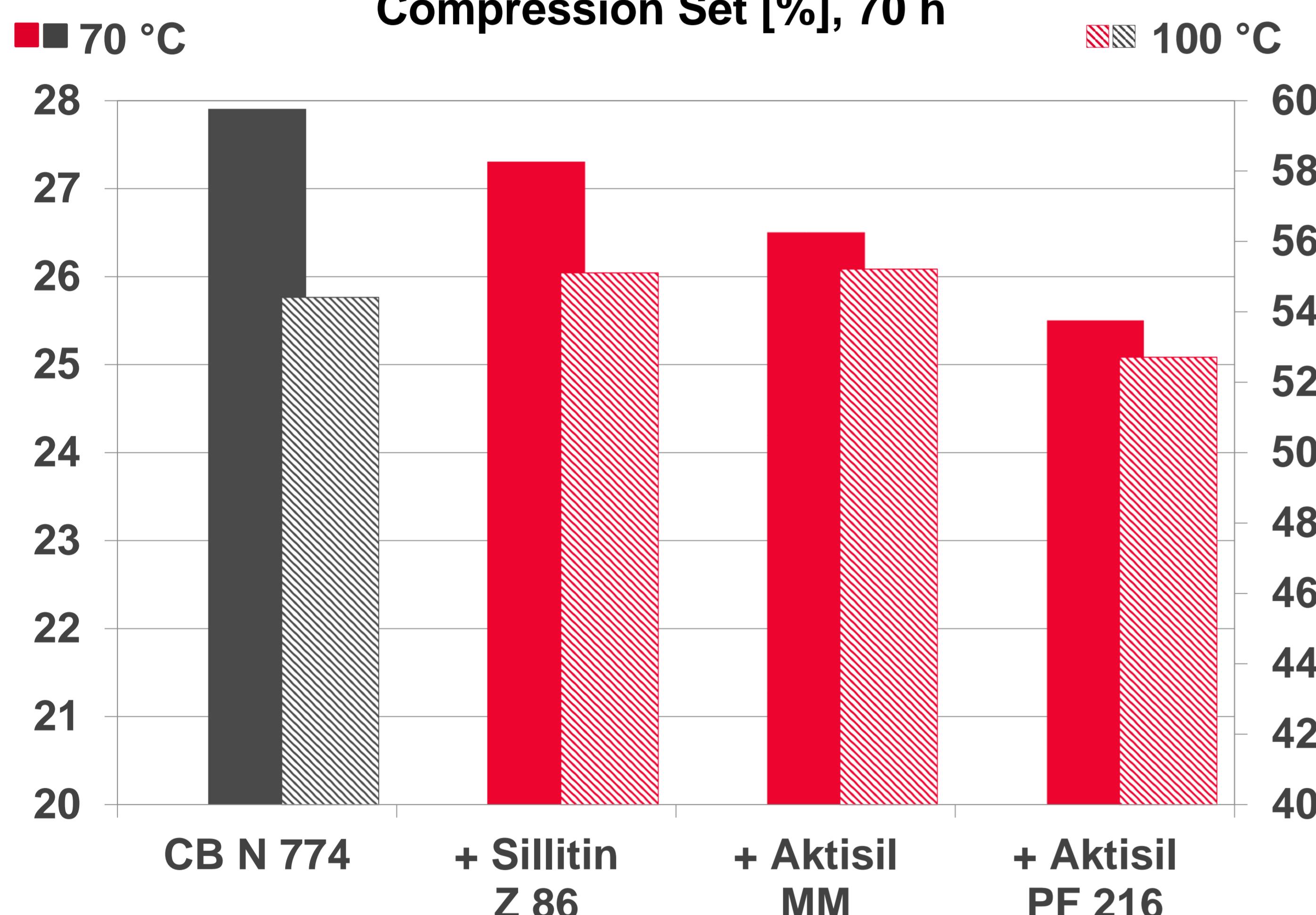
Mooney Viscosity [MU]



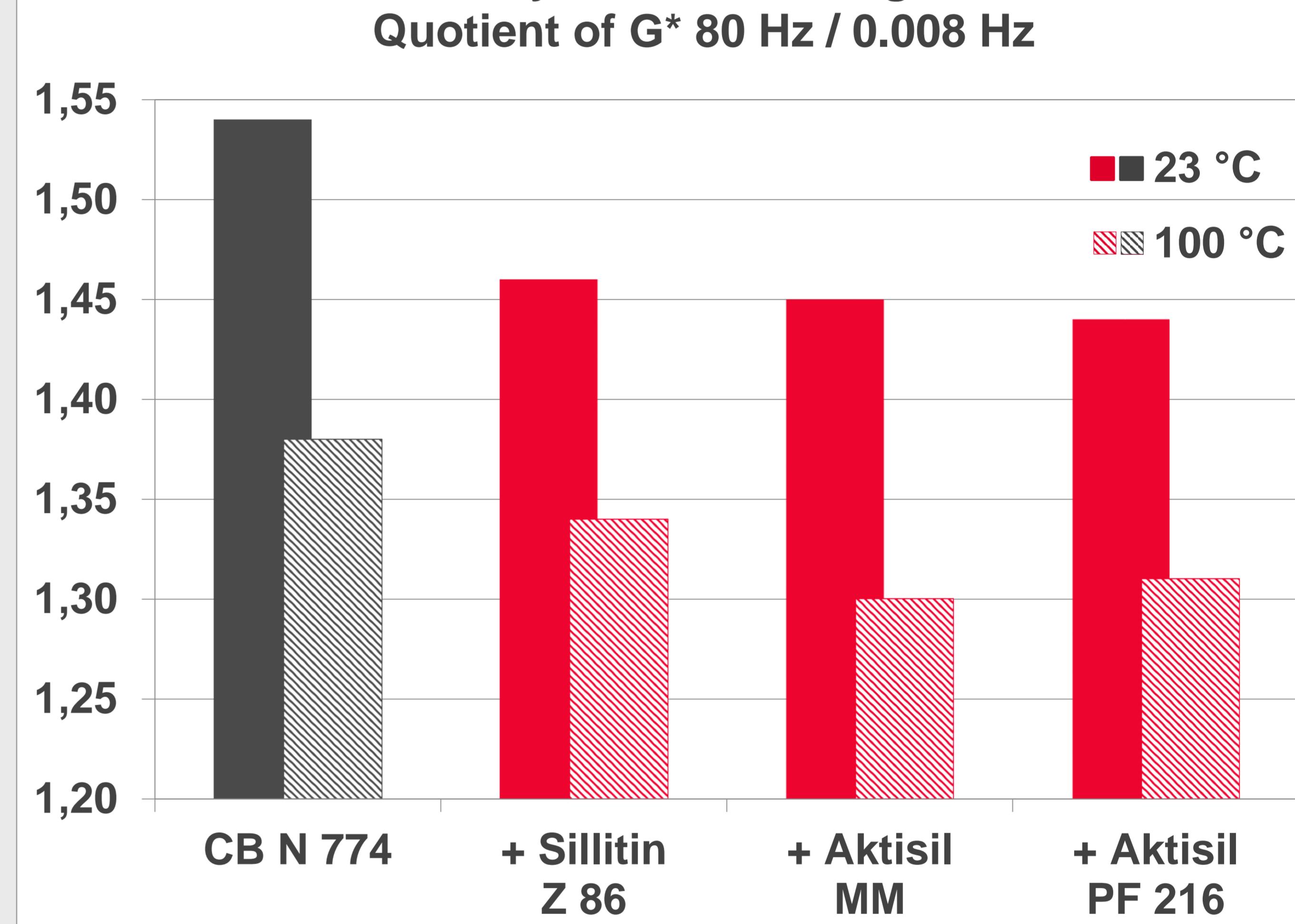
Volume Resistivity [Ω^*cm]



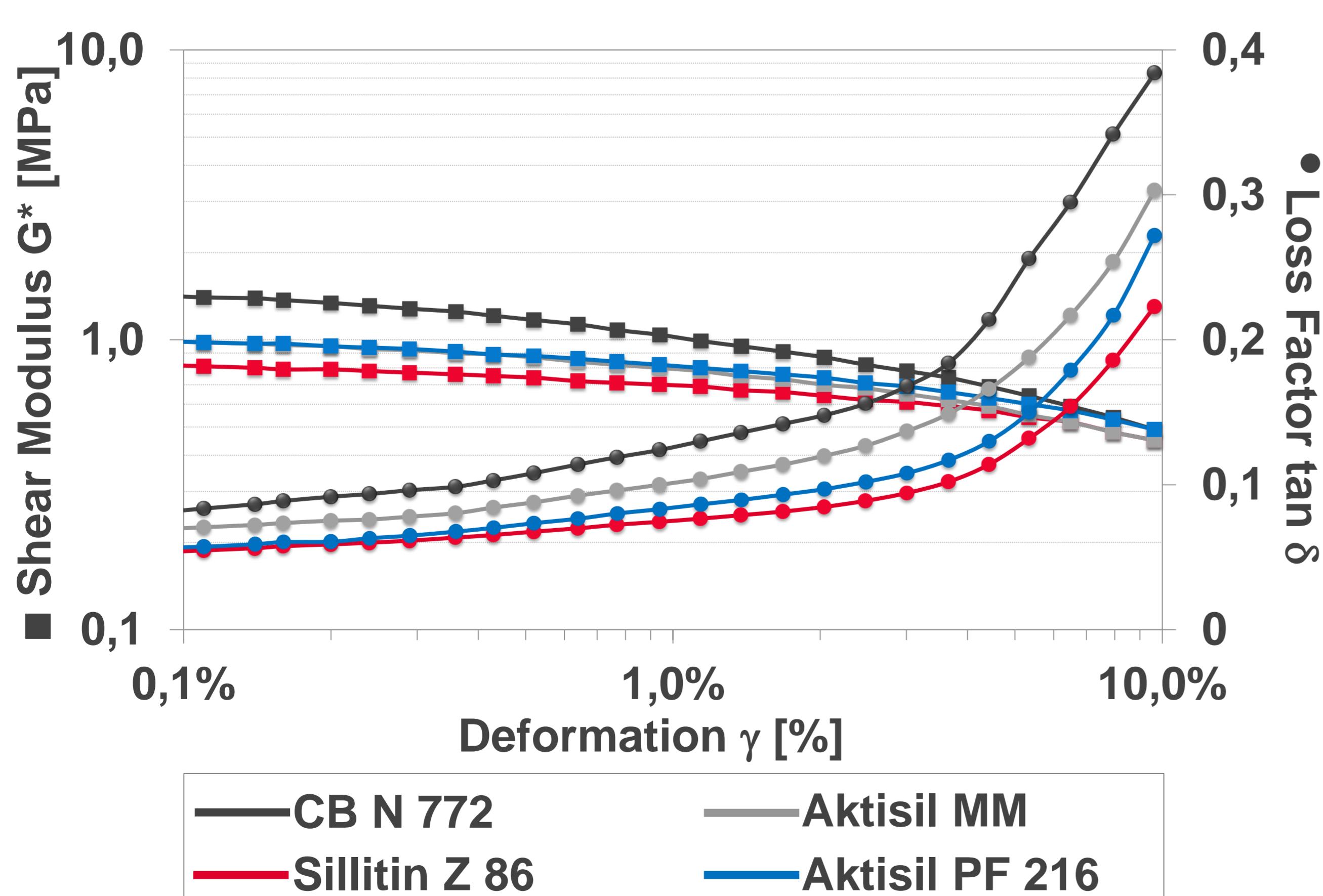
Compression Set [%], 70 h



Dynamic Stiffening
Quotient of $G^* 80 \text{ Hz} / 0.008 \text{ Hz}$



Amplitude Sweep at 23 °C, $f = 0.16 \text{ Hz}$



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

