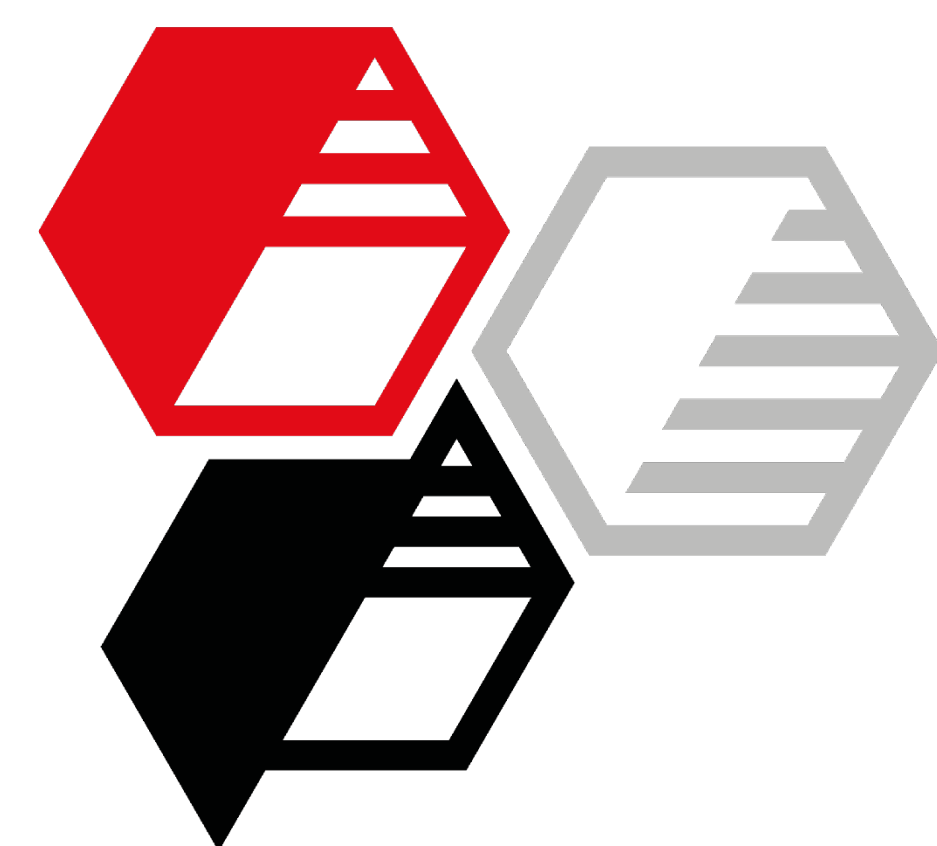


Alternatives for CNSE in cable isolation EPDM peroxide cured



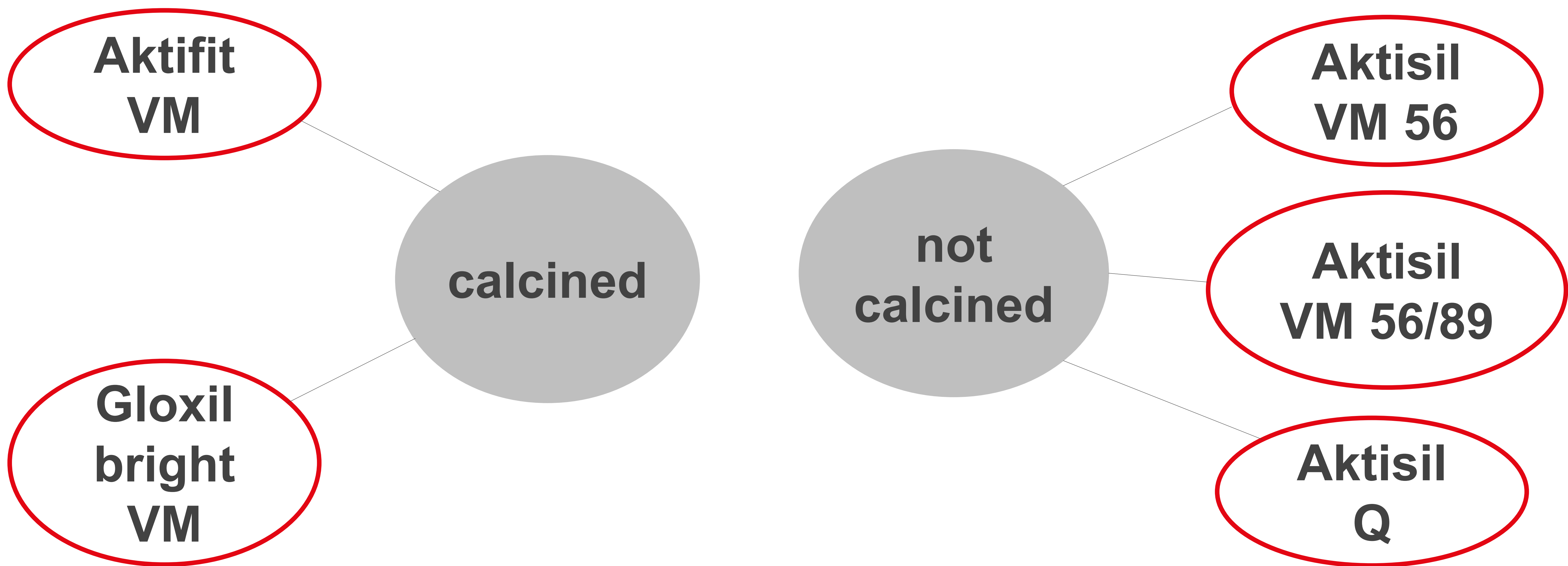
Objective

To offer our customers alternatives to Aktifit VM from our product range, we evaluated the performance of various Neuburg Siliceous Earth types in an EPDM-based cable insulation formulation for low-voltage applications, and summarized the results here.

Formulation

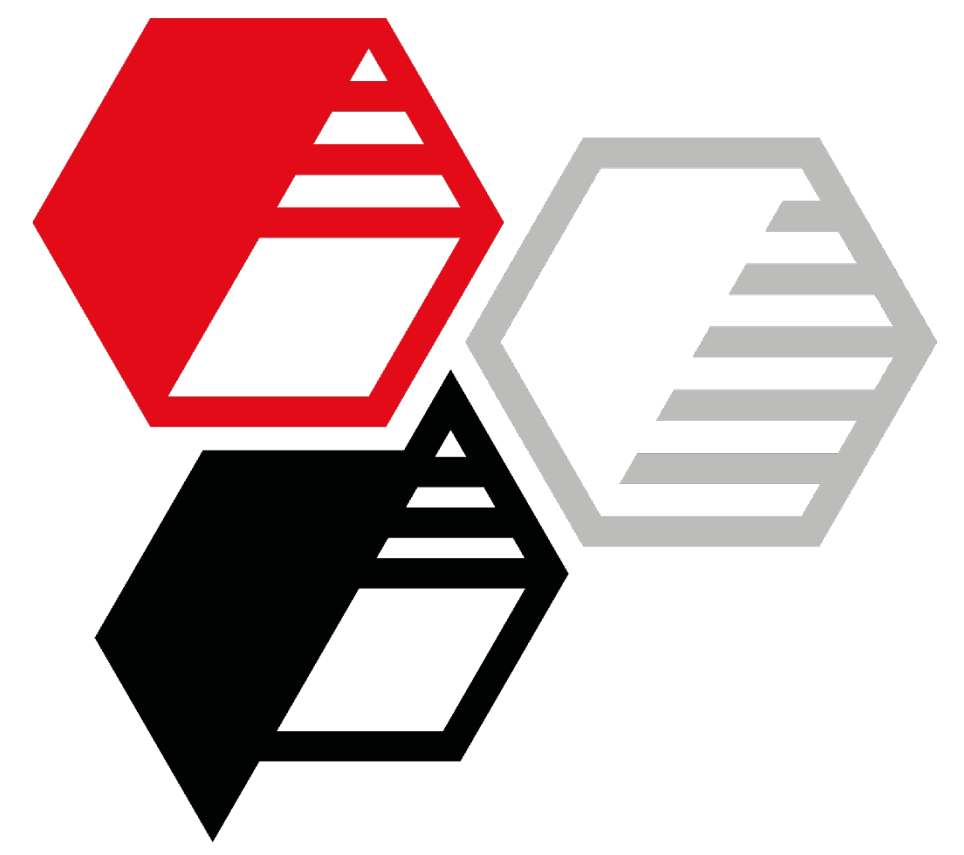
	phr
Keltan 3973	130
Filler	200
Stearic Acid	1
Zinkoxyd aktiv	5
Process Oil P 460	15
Paraffin Type 5405	4
Vulkanox HS / LG	1
Vulkanox MB-2 / MG-C	0,5
TAC GR 50	2
Perkadox 14-40B-pd-s	6
Total	364,5

Fillers are all vinyl-functionalized; except Aktisil Q, methacrylic

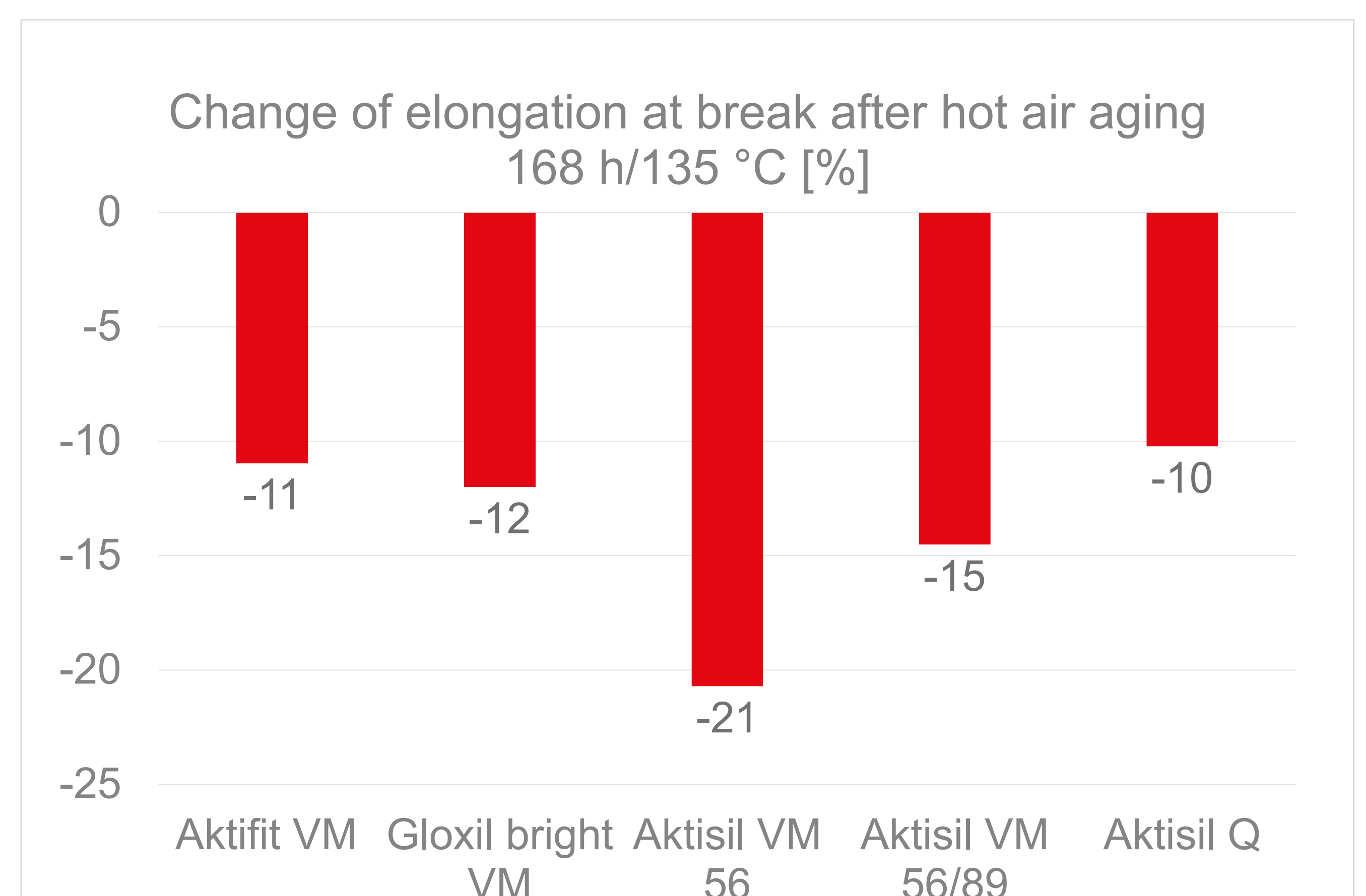
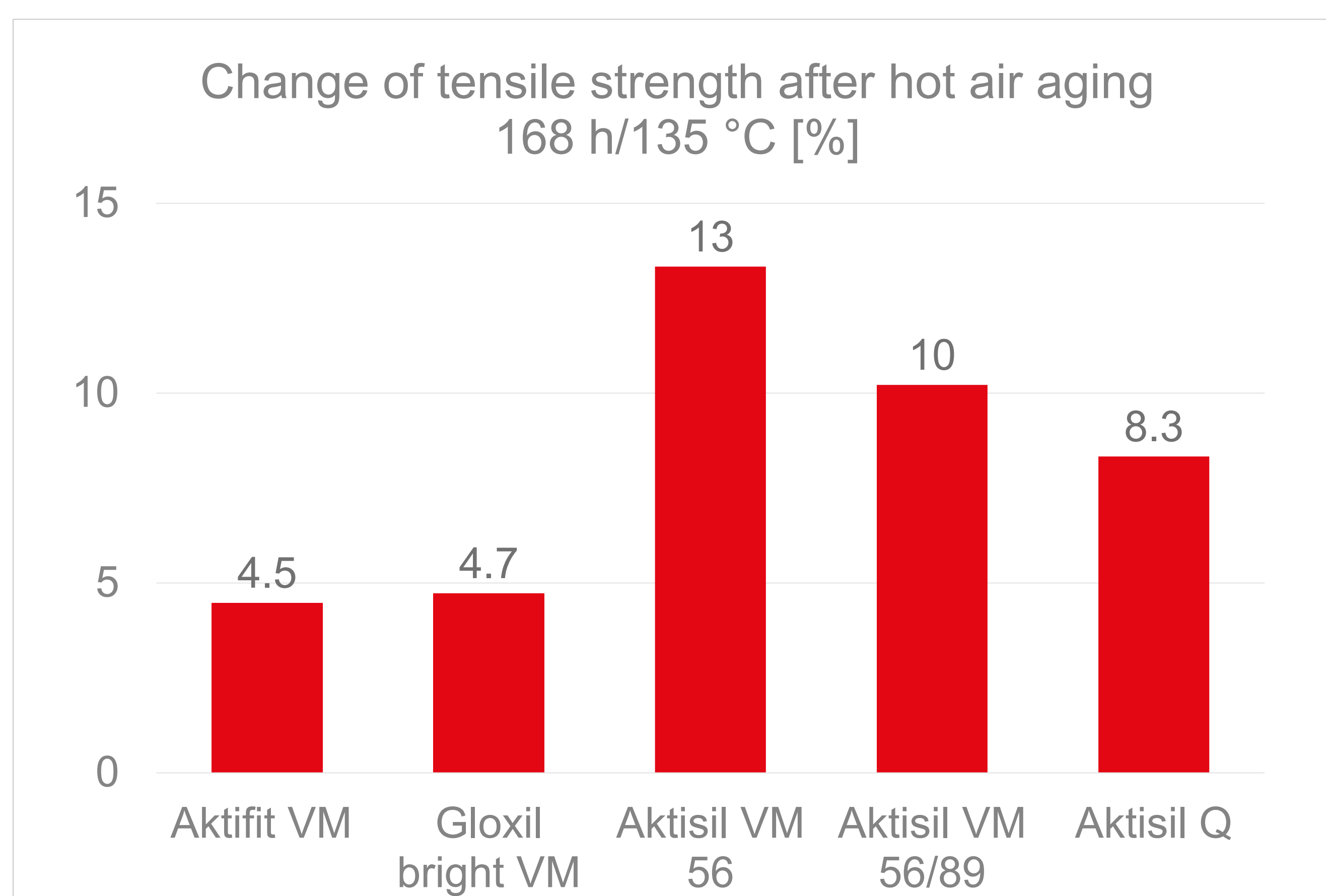
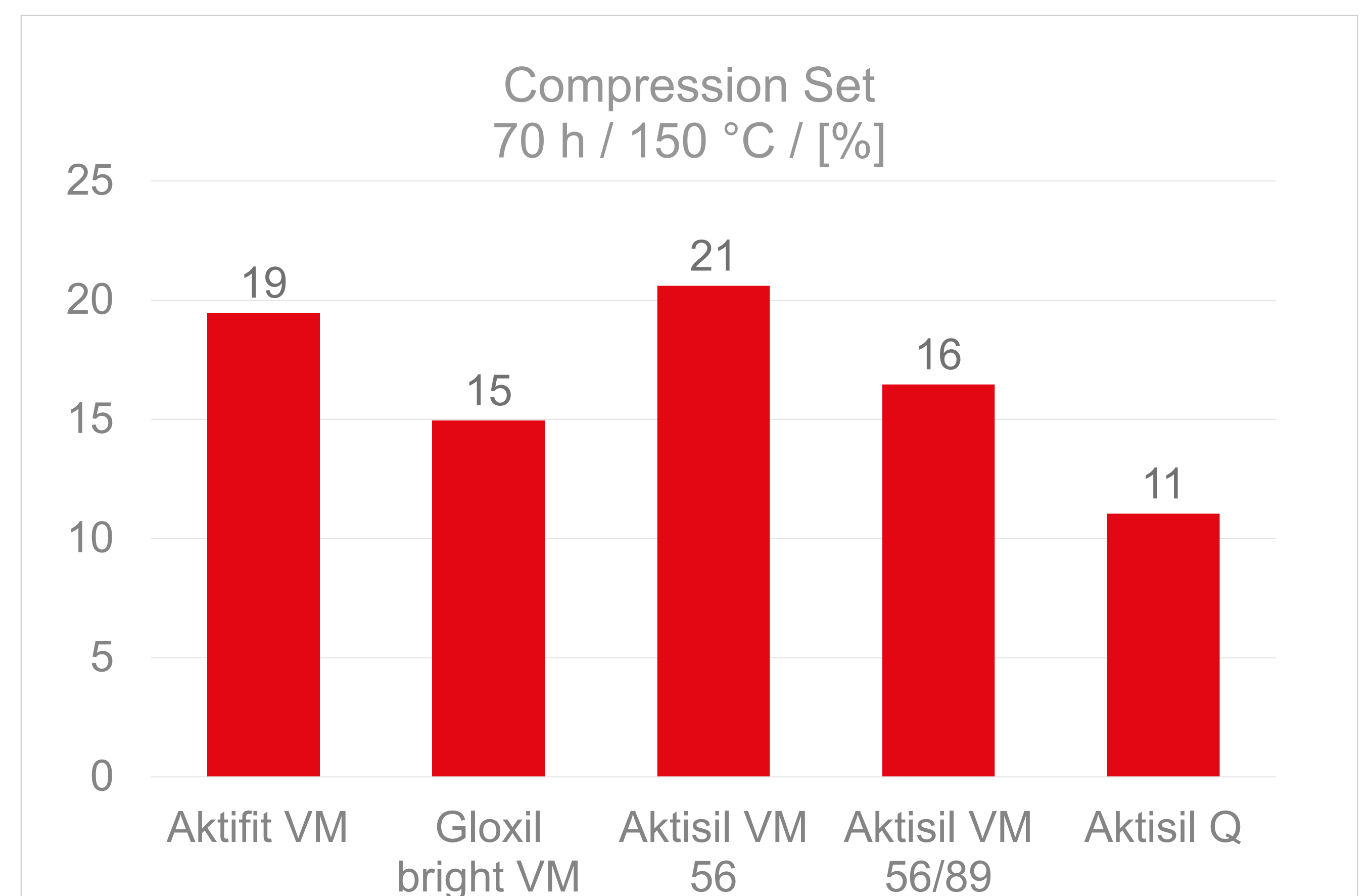
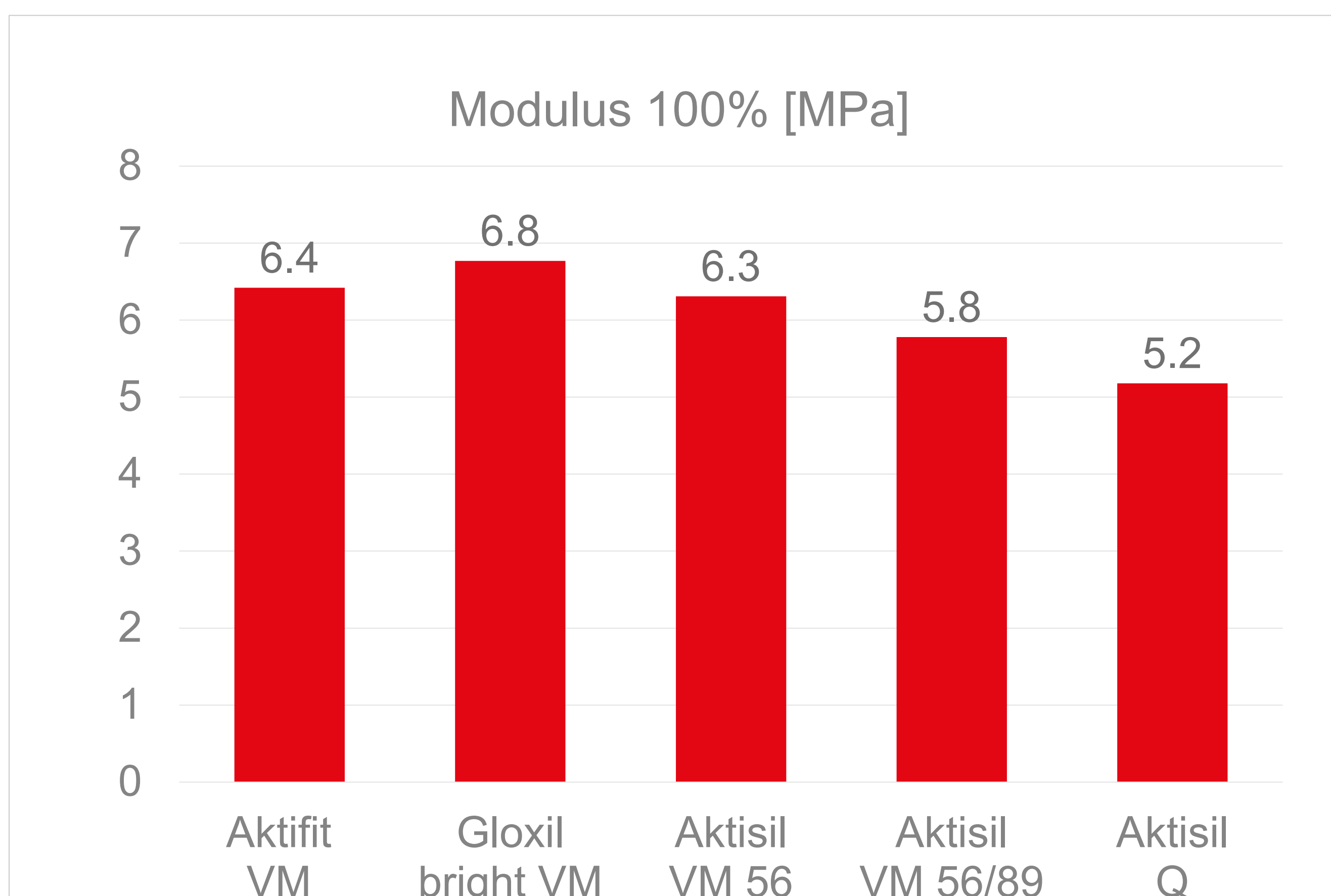
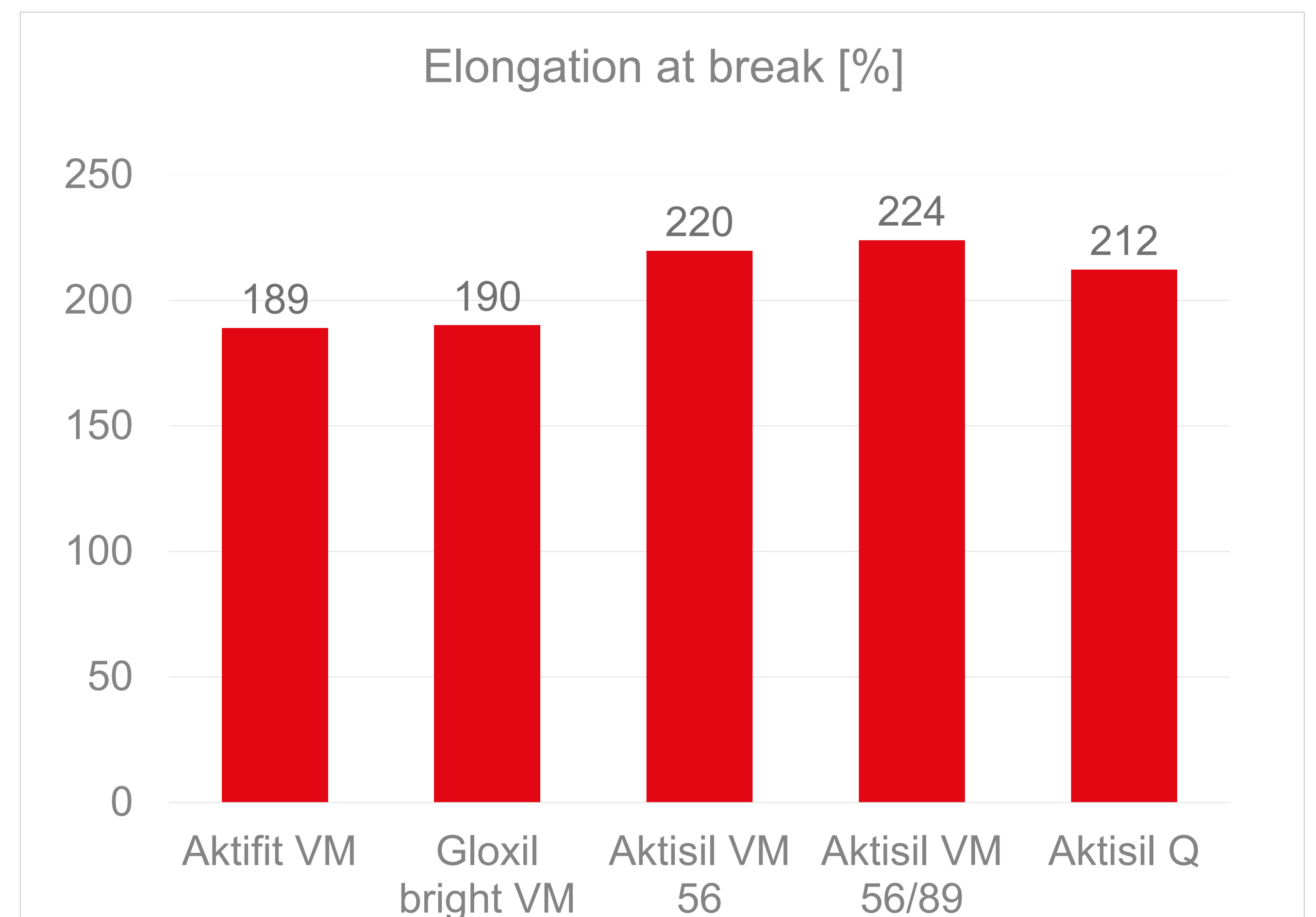
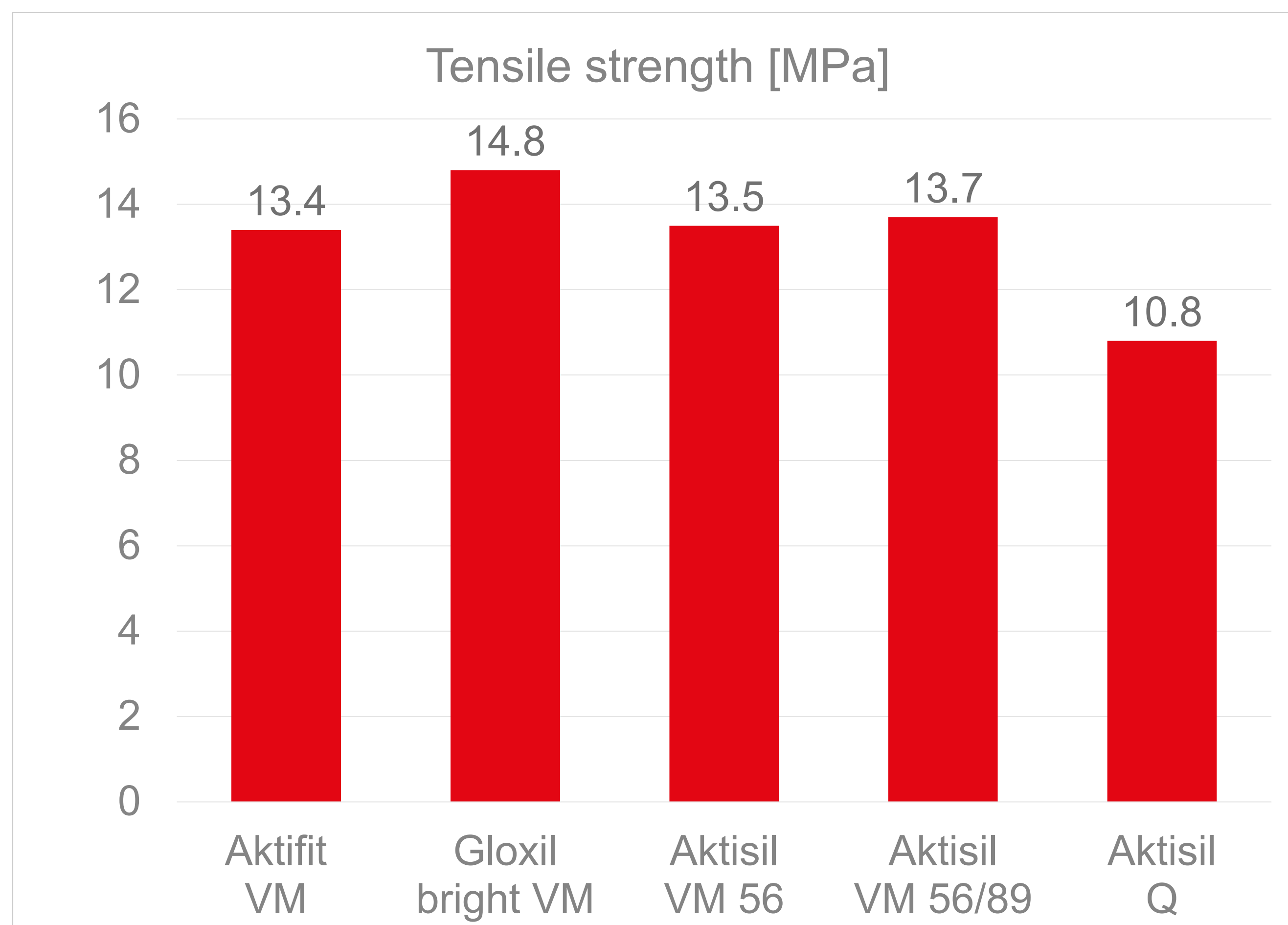


Alternatives for CNSE in cable isolation

EPDM peroxide cured



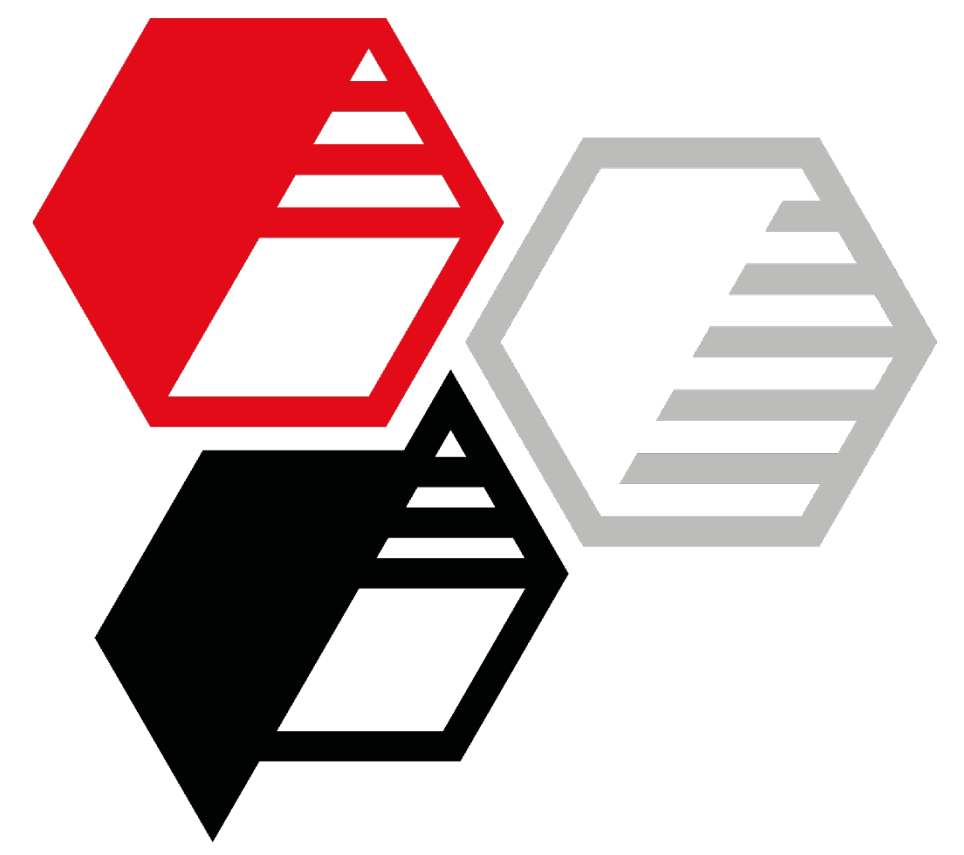
Results



Summary

- ✓ **Gloxil bright VM performs similar to Aktifit VM, even slightly better in**
 - tensile strength
 - compression set and modulus, indicating good hot set test
- **The Aktisil grades perform on a high level too, in particular**
 - slightly higher elongation at break
 - Aktisil Q in best compression set, even better than Gloxil bright VM

Alternatives for CNSE in cable isolation EPDM peroxide cured



Volume Resistivity before and after storage in water, 70 °C



- Gloxil bright VM performs at a high and stable level, similar to Aktifit VM, suitable for high voltage insulations
- For low-voltage insulations, the non-calcined Aktisils also exhibit fully adequate and stable isolating properties.