

NEUBURG SILICEOUS EARTH IN UV-CURING WOOD COATINGS: CLEAR TOP COAT ALIPHATIC URETHANE ACRYLATE

OBJECTIVE

- Retain property profile plus improvement
- Cost reduction potential

Matting agent:
Silica Gel
(d_{50} : 4 μm , d_{97} : 12 μm)

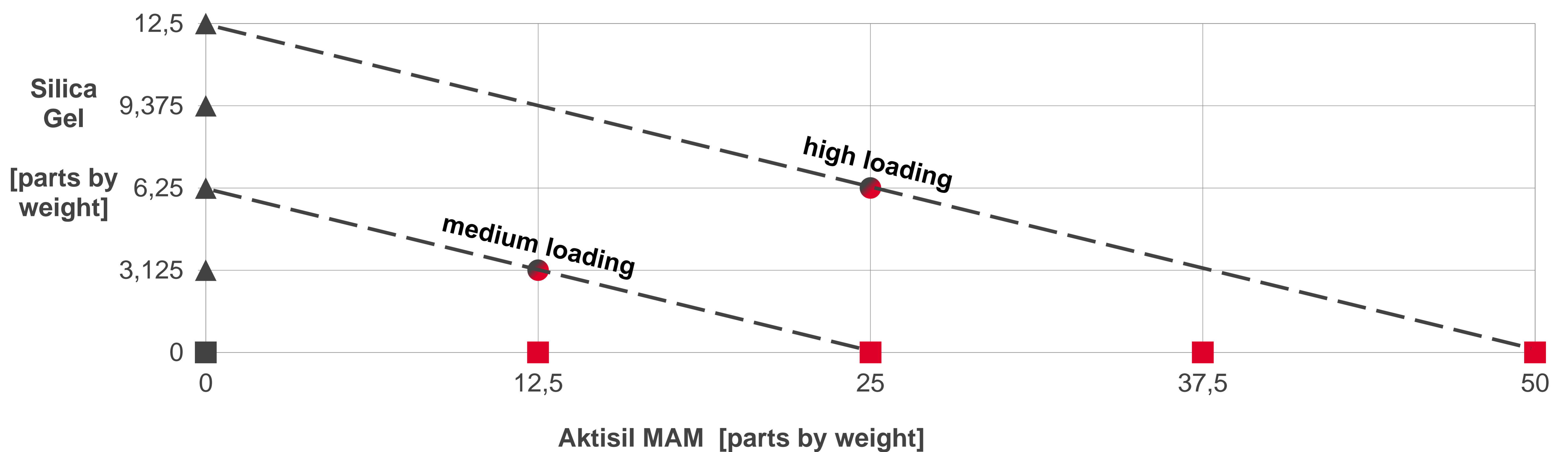


**Neuburg Siliceous Earth:
Aktisil MAM**
(d_{50} : 4 μm , d_{97} : 18 μm)
or
Combination with Silica Gel

FORMULATION

Ebecryl 294	65.0
HDDA	30.0
Benzophenone	3.0
Omnirad 1173	2.0
BYK 088	0.3
Silica Gel	variable loading x: 0 to 12.5
Aktisil MAM	variable loading y: 0 to 50
Total [parts per weight]	100.3 + x + y

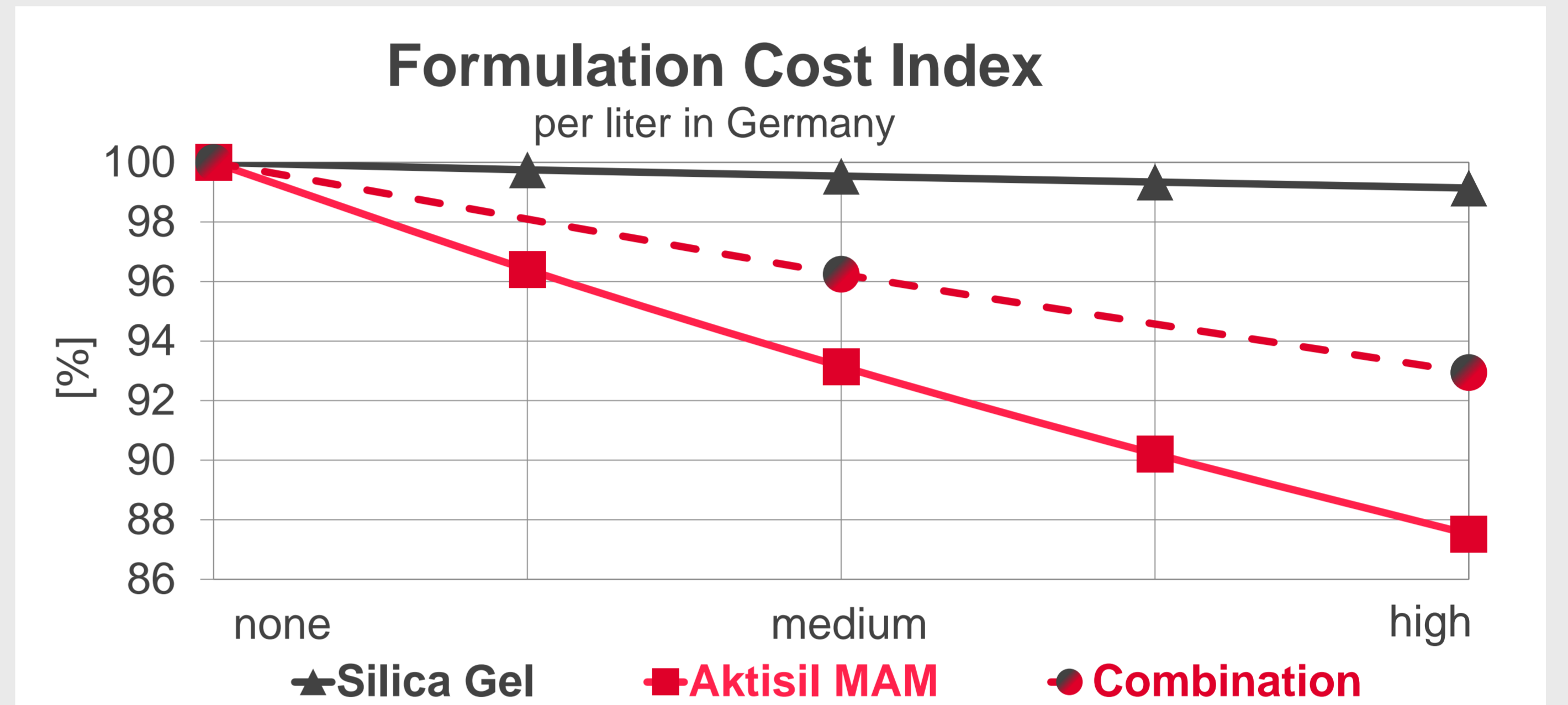
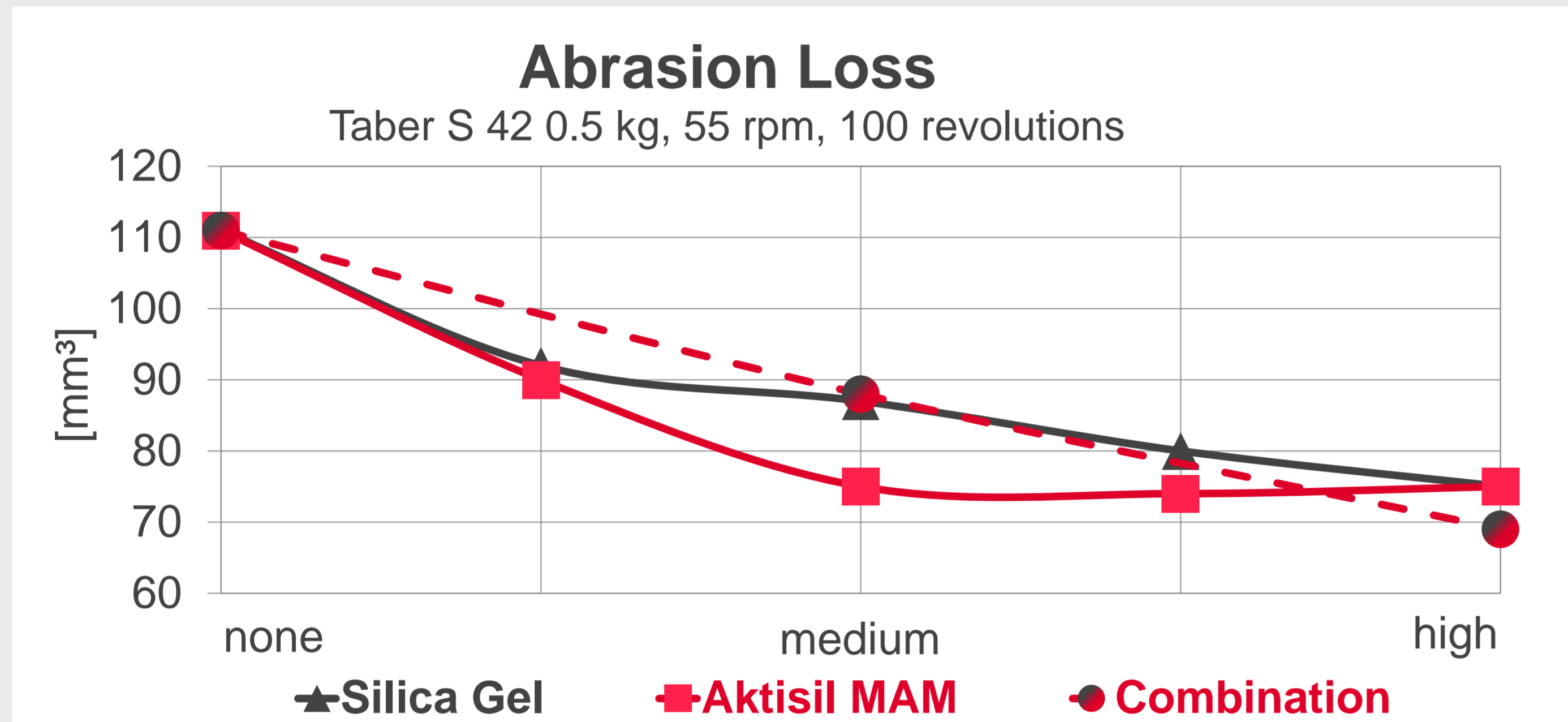
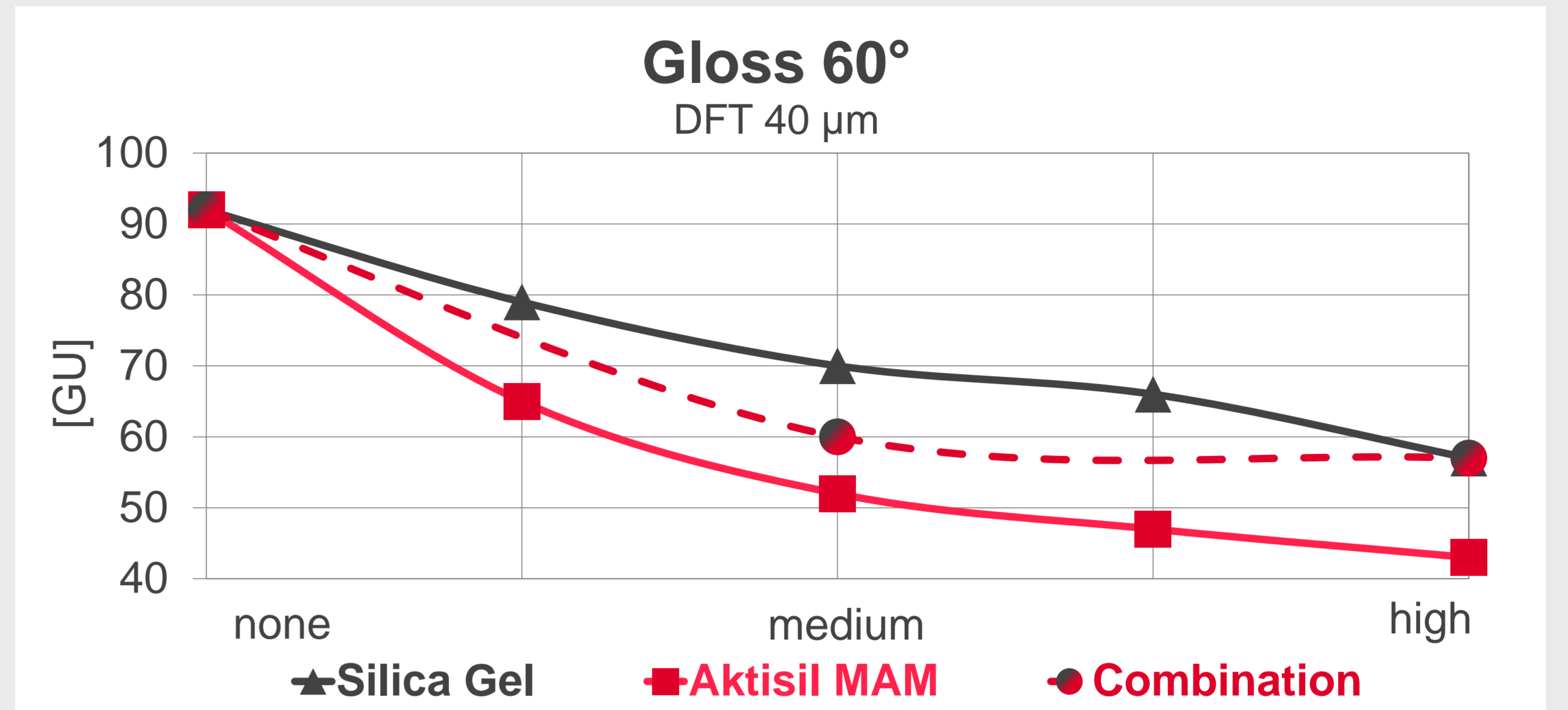
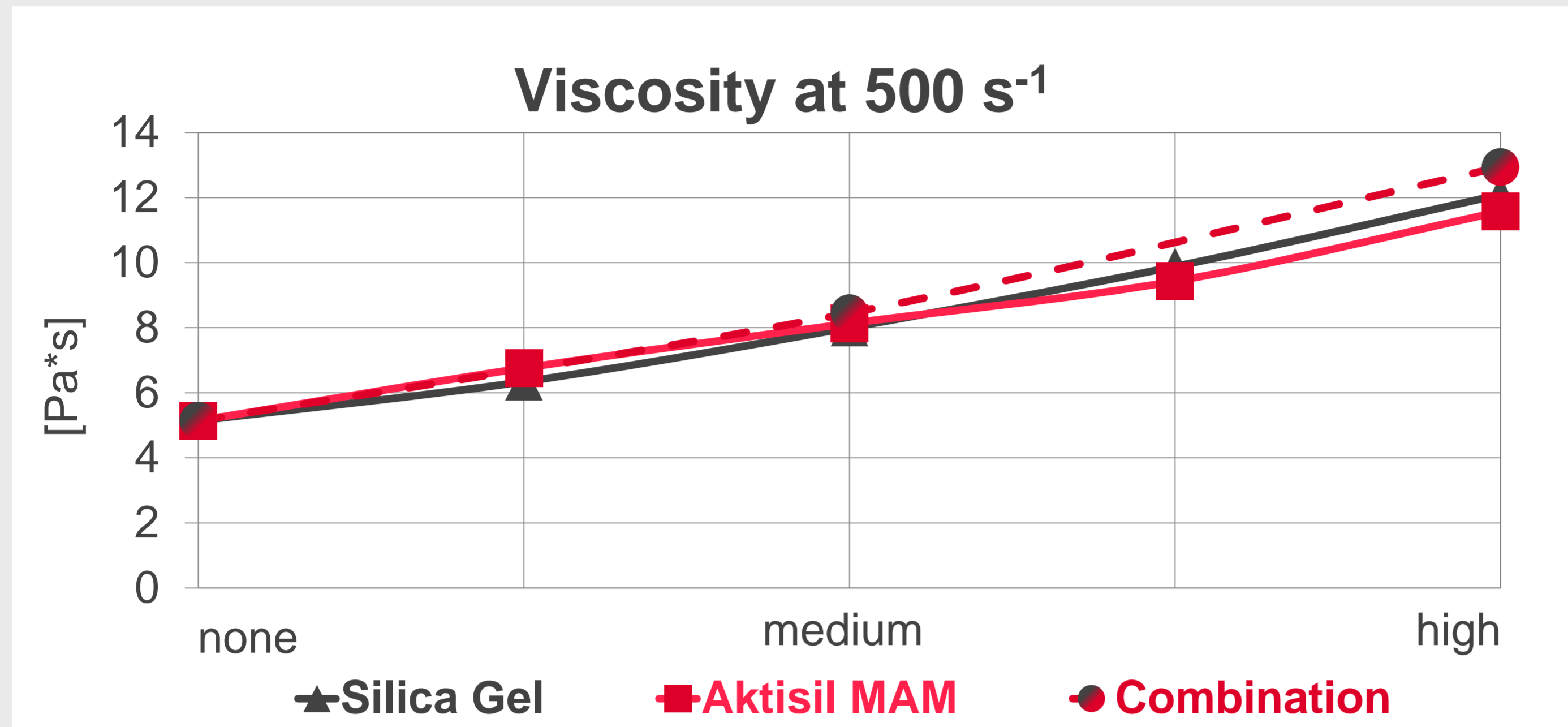
Test Design



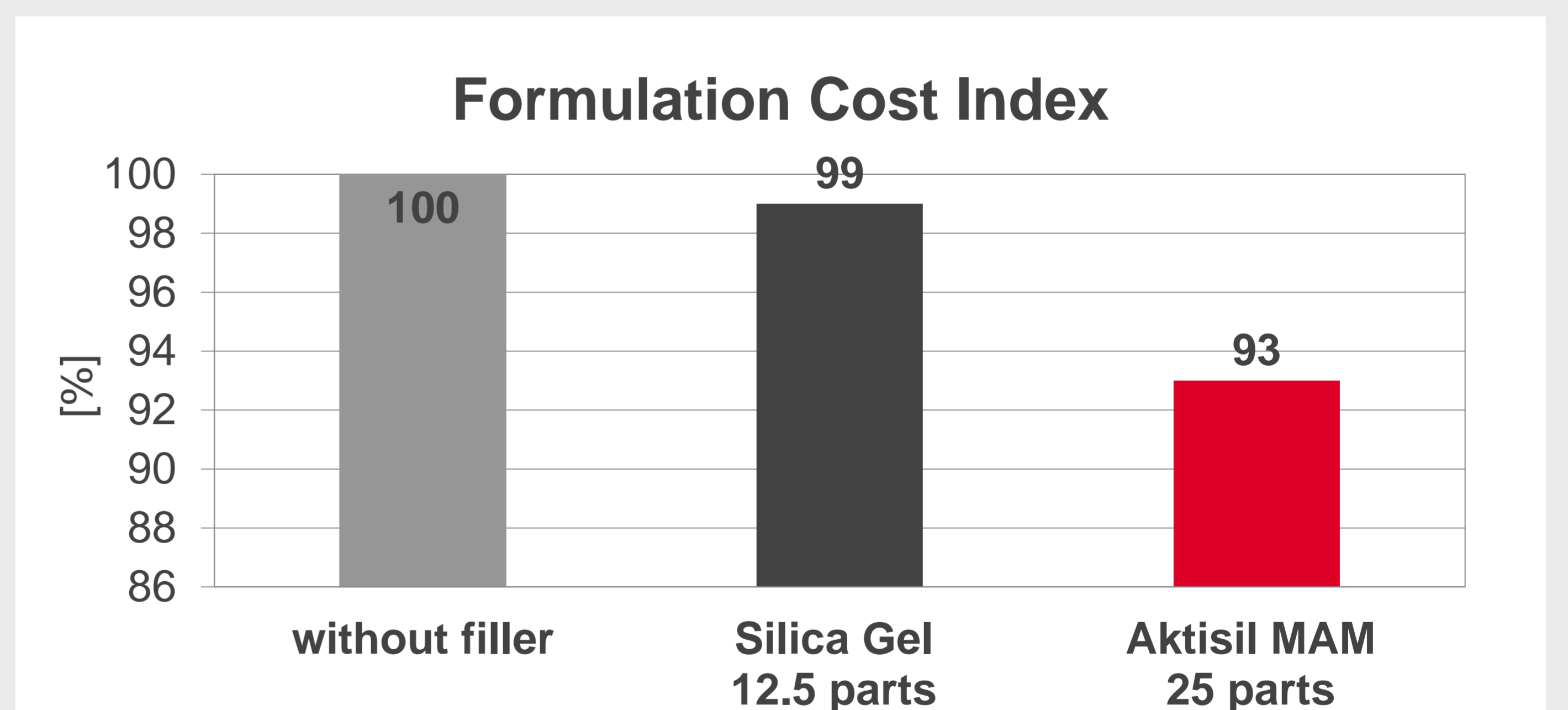
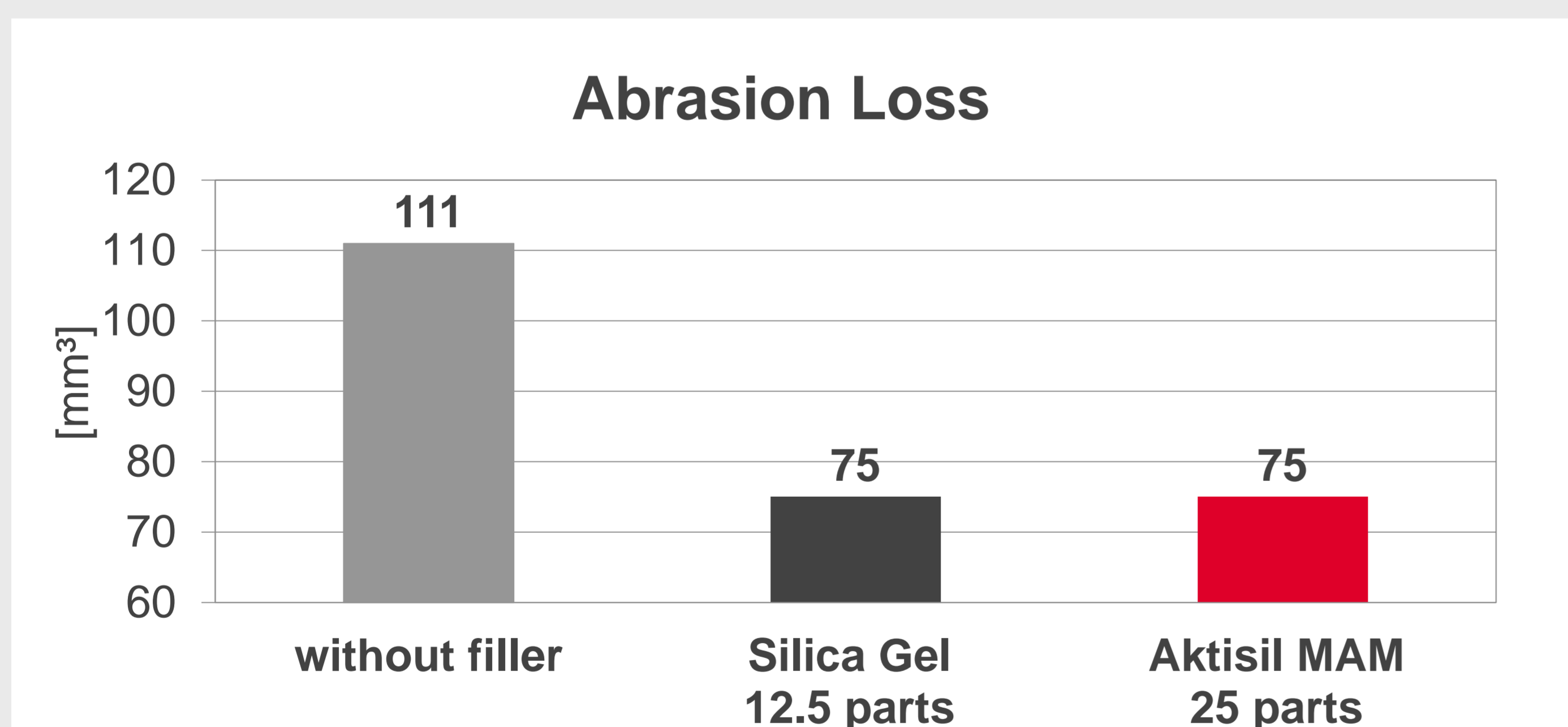
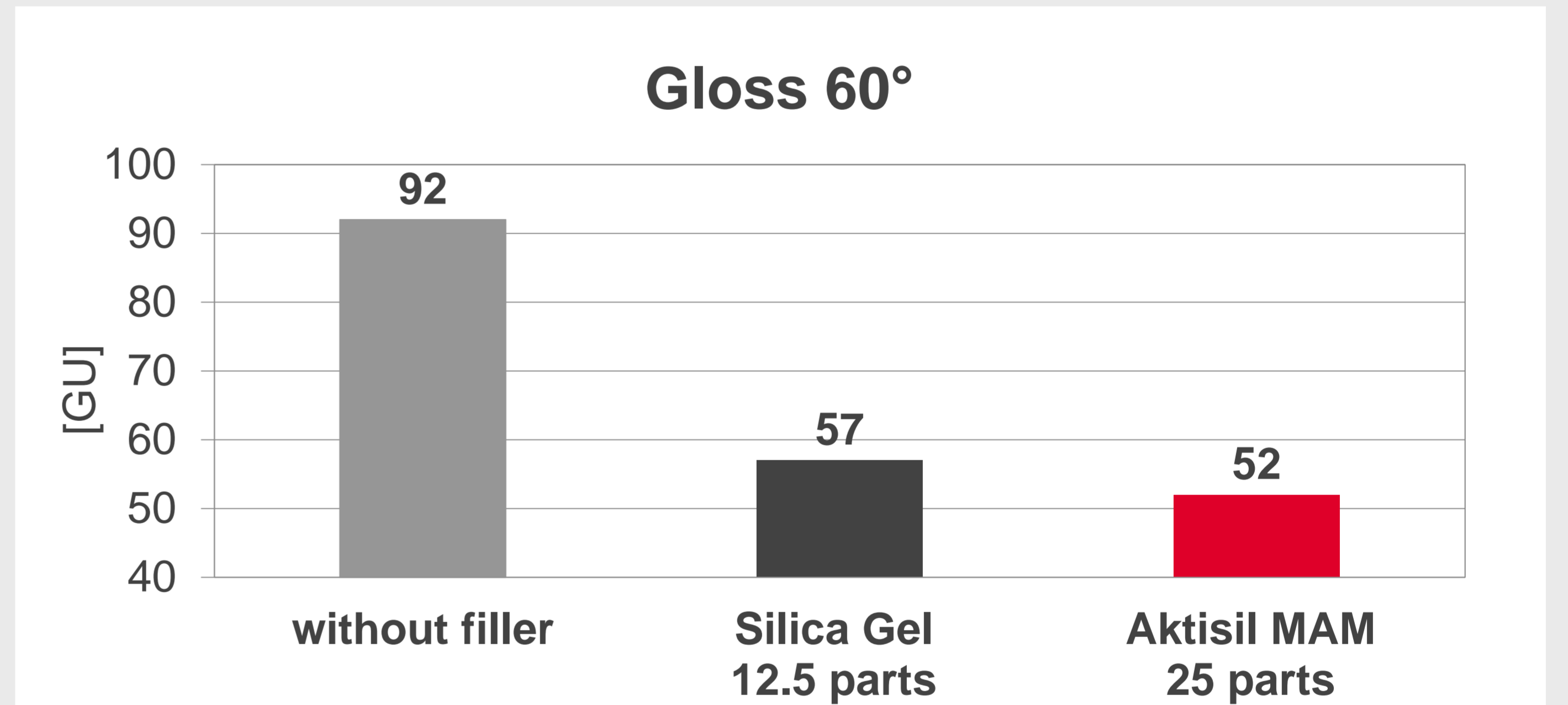
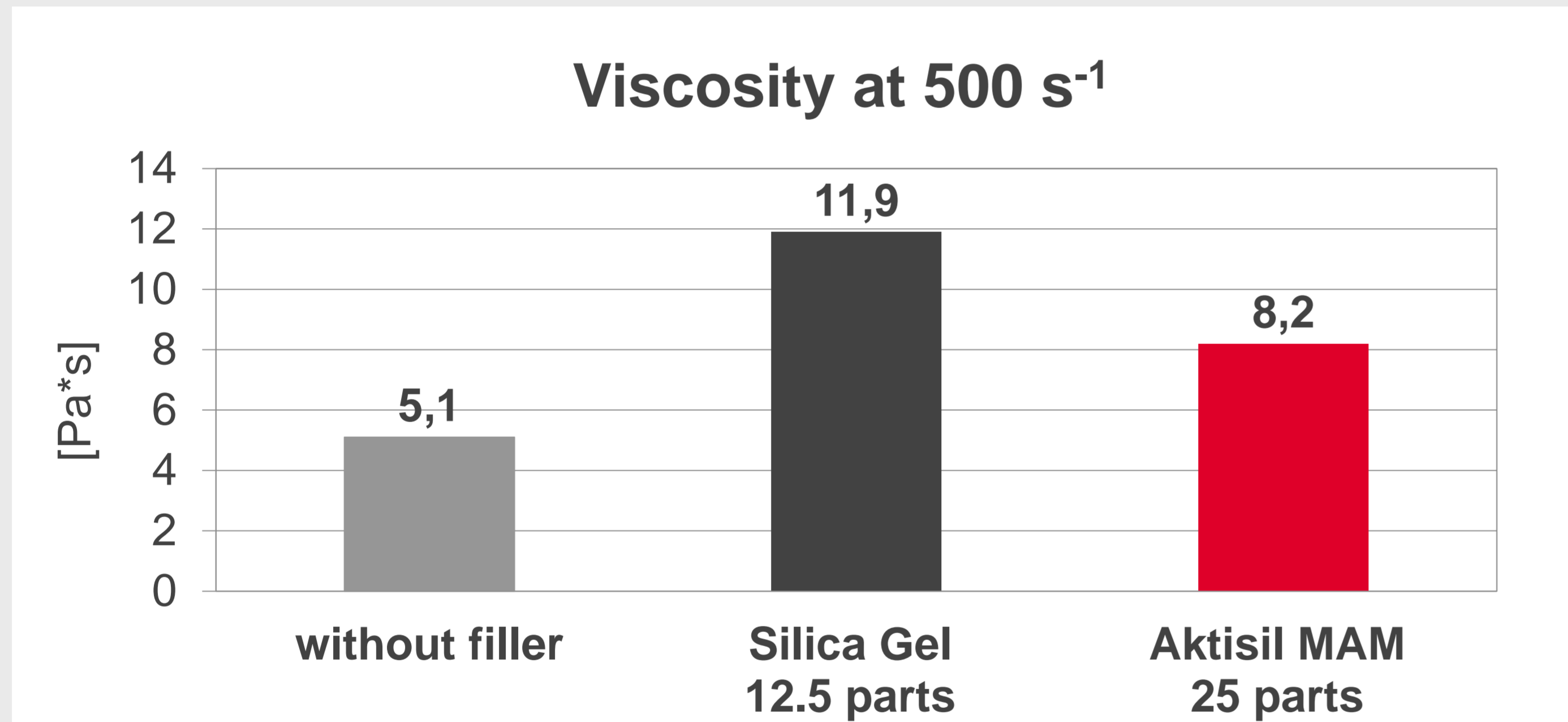
**HOFFMANN
MINERAL**

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RESULTS



Benchmarking Aktisil MAM vs. Silica Gel Matting Agent



SUMMARY

Aktisil MAM achieves good matting with only a moderate increase in viscosity and low abrasion loss.

The excellent cost-performance ratio complements the overall result.