

# NEUBURG SILICEOUS EARTH IN ROAD MARKING PAINT WHITE, WATER-BASED (WFT 600 µm)

## OBJECTIVE

Reduced Titanium Dioxide Content:  
What can Silfit Z 91 Offer?

## FORMULATION

	Control *	- 40 % TiO <sub>2</sub>	
Fastrack 53	366	366	366
Foamaster 8034	2.4	2.4	2.4
Triton X 405	2.9	2.9	2.9
AS 238	8.2	8.2	8.2
Titanium dioxide	96	58	58
Calcium carbonate (NCC), d <sub>50</sub> ~ 7µm	456	399	399
<b>Silfit Z 91</b>		<b>80</b>	<b>80</b>
Amino silane			0.8
Ethanol	11.8	11.8	11.8
Foamaster 8034	0.3	0.3	0.3
Texanol	38	38	38
Water	18.1	18.1	18.1
<b>Total (parts by weight)</b>	<b>1000</b>	<b>985</b>	<b>986</b>
PVC [%]		51	
Dilution [%] <sup>1</sup>	0	1	1.4

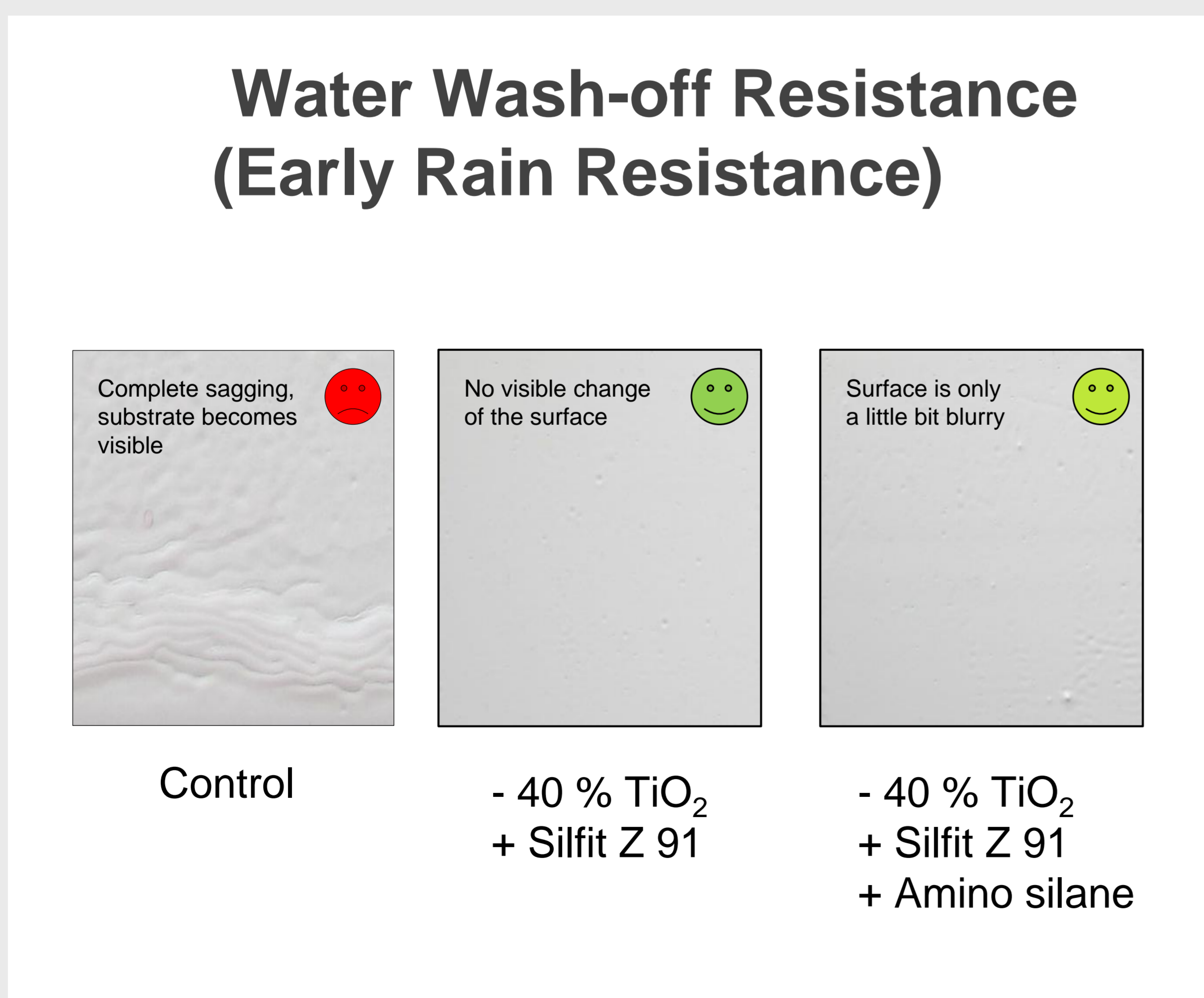
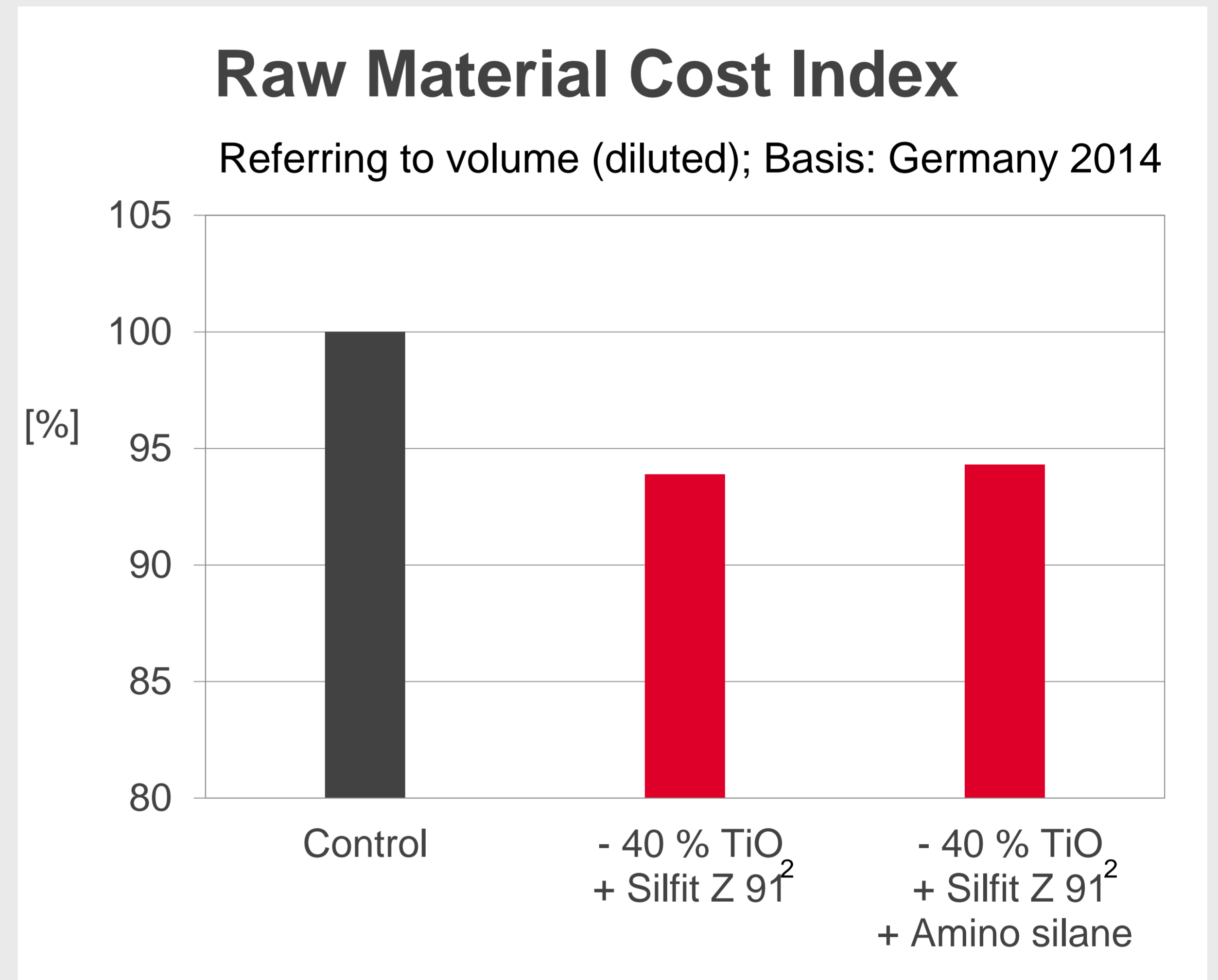
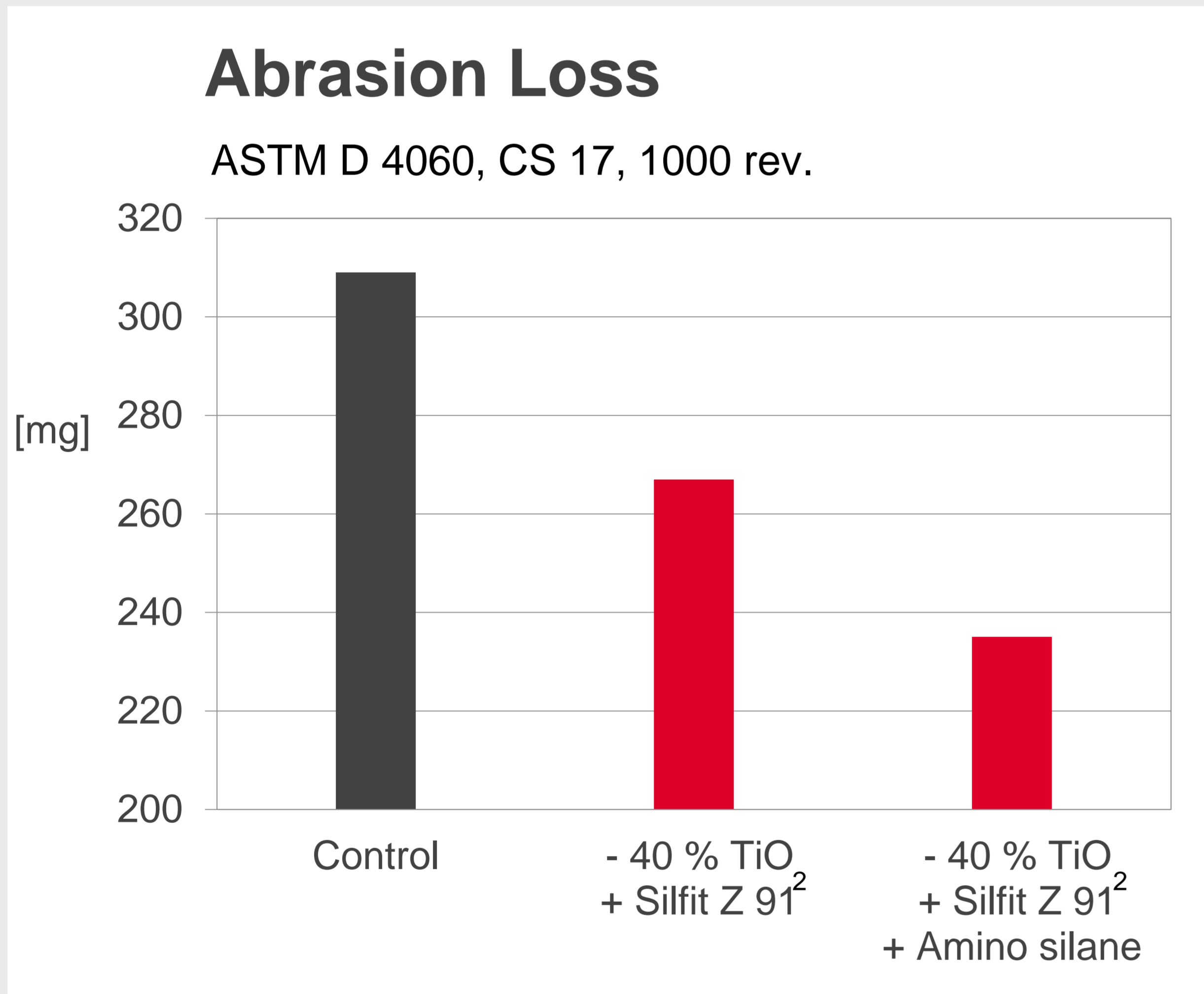
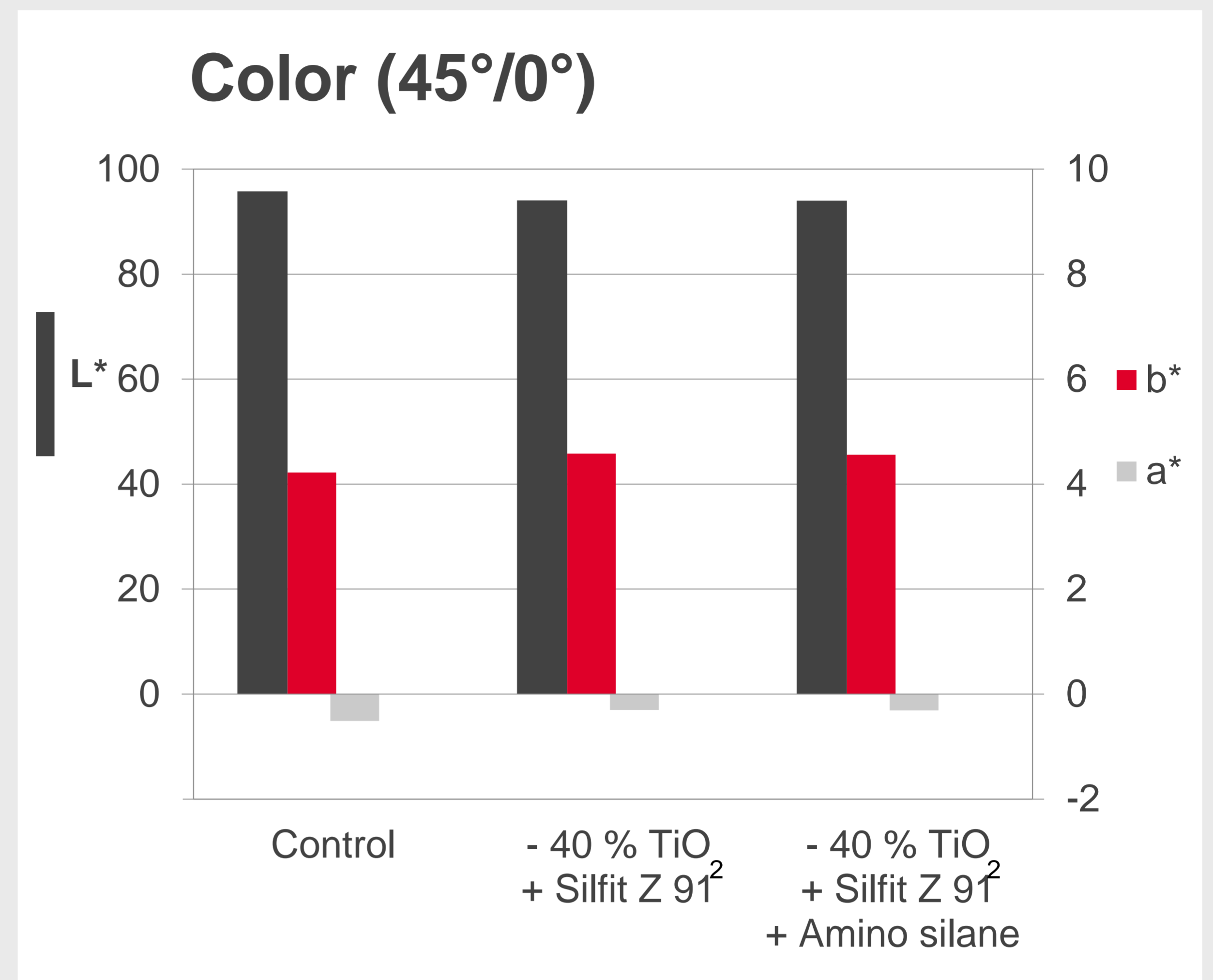
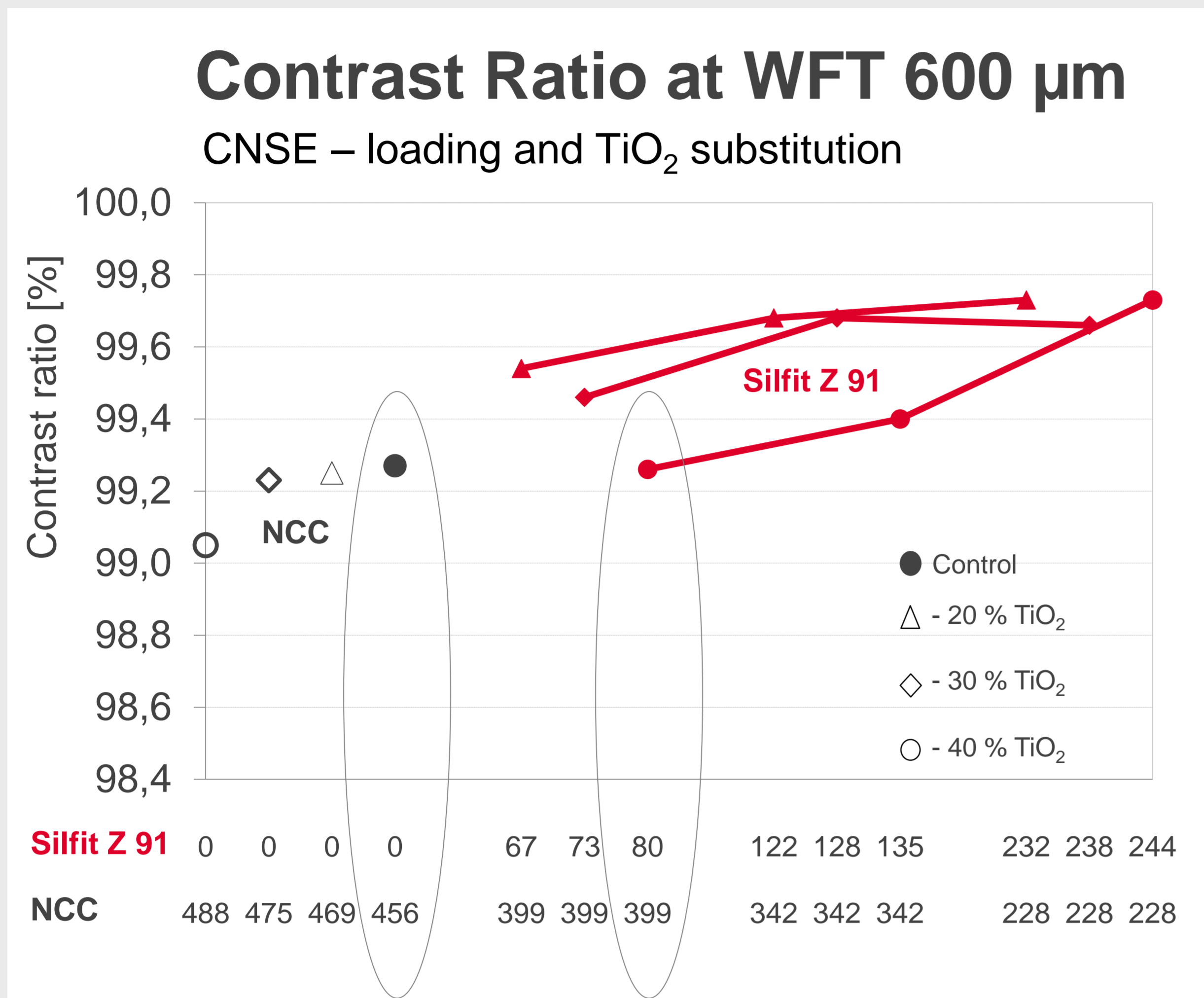
<sup>1</sup> Dilution with deionized water [%] to application viscosity of approx. 15 s in the DIN 6 mm cup

\* Base formulation by Dow Chemical Company (Rohm & Haas)

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## RESULTS

Substrate: contrast cardboards (wet film thickness 600 µm, dry film thickness 250 - 280 µm)



## SUMMARY

Replacing 40 % titanium dioxide and 12.5 % calcium carbonate by **Silfit Z 91**:

- maintaining contrast ratio (hiding power)
- maintaining color
- + improved water wash-off resistance (early rain resistance)
- + marked improvement of abrasion resistance, enhanced by addition of silane
- + offers cost-saving potential