

ISO 25178 - Roughness (S-L)

S-filter (λ_s): Gaussian, 2.5 μm

F-operation: None

L-filter (λ_c): Gaussian, 0.8 mm

Height parameters

Sq 3.8 μm

Sa 2.7 μm

Spatial parameters

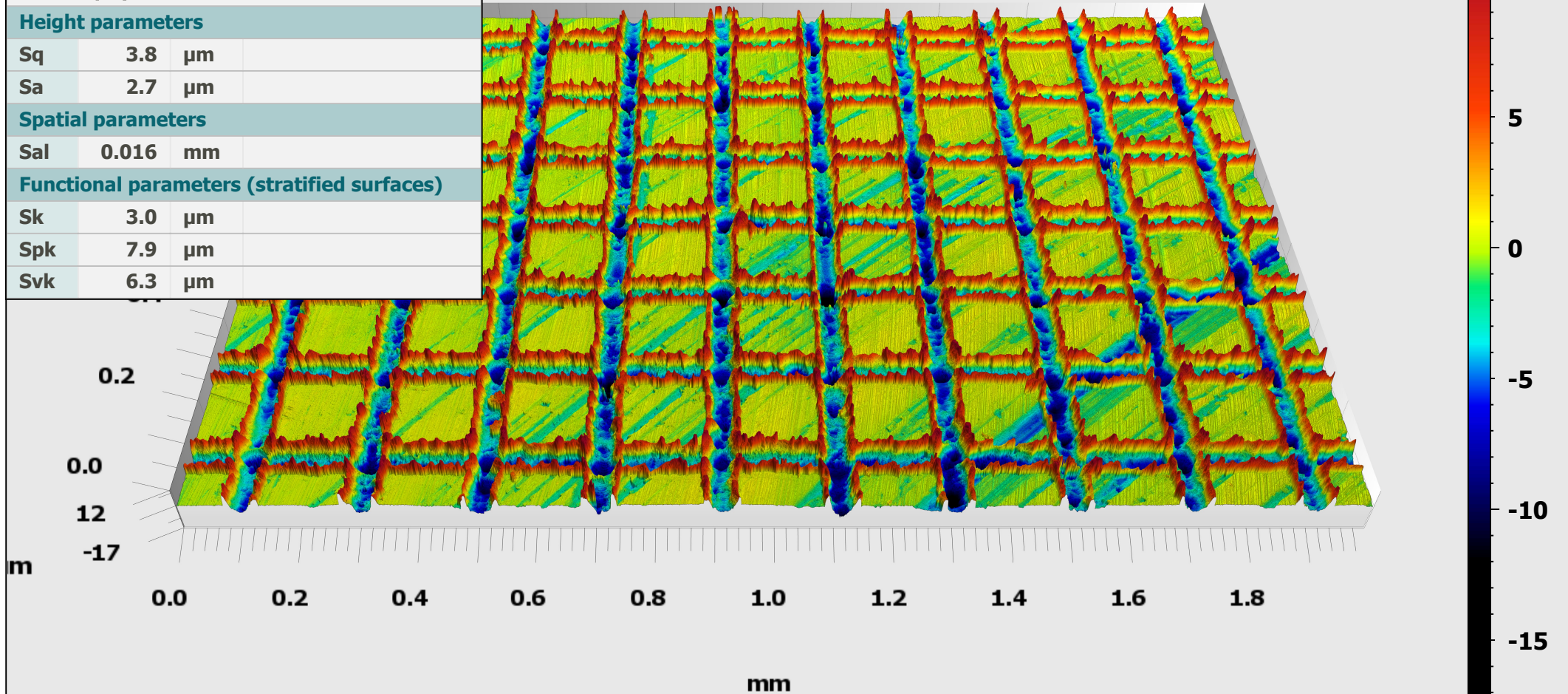
Sal 0.016 mm

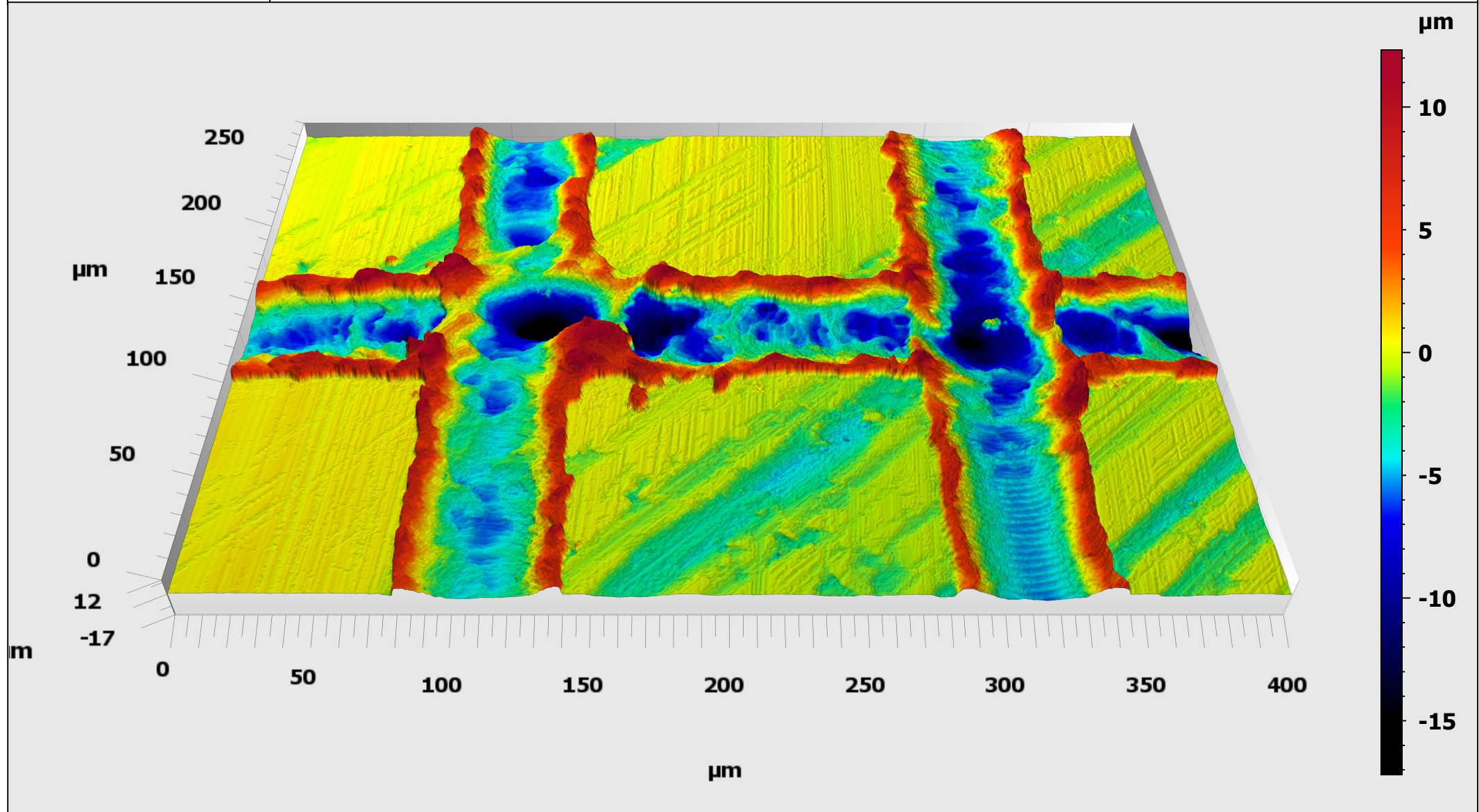
Functional parameters (stratified surfaces)

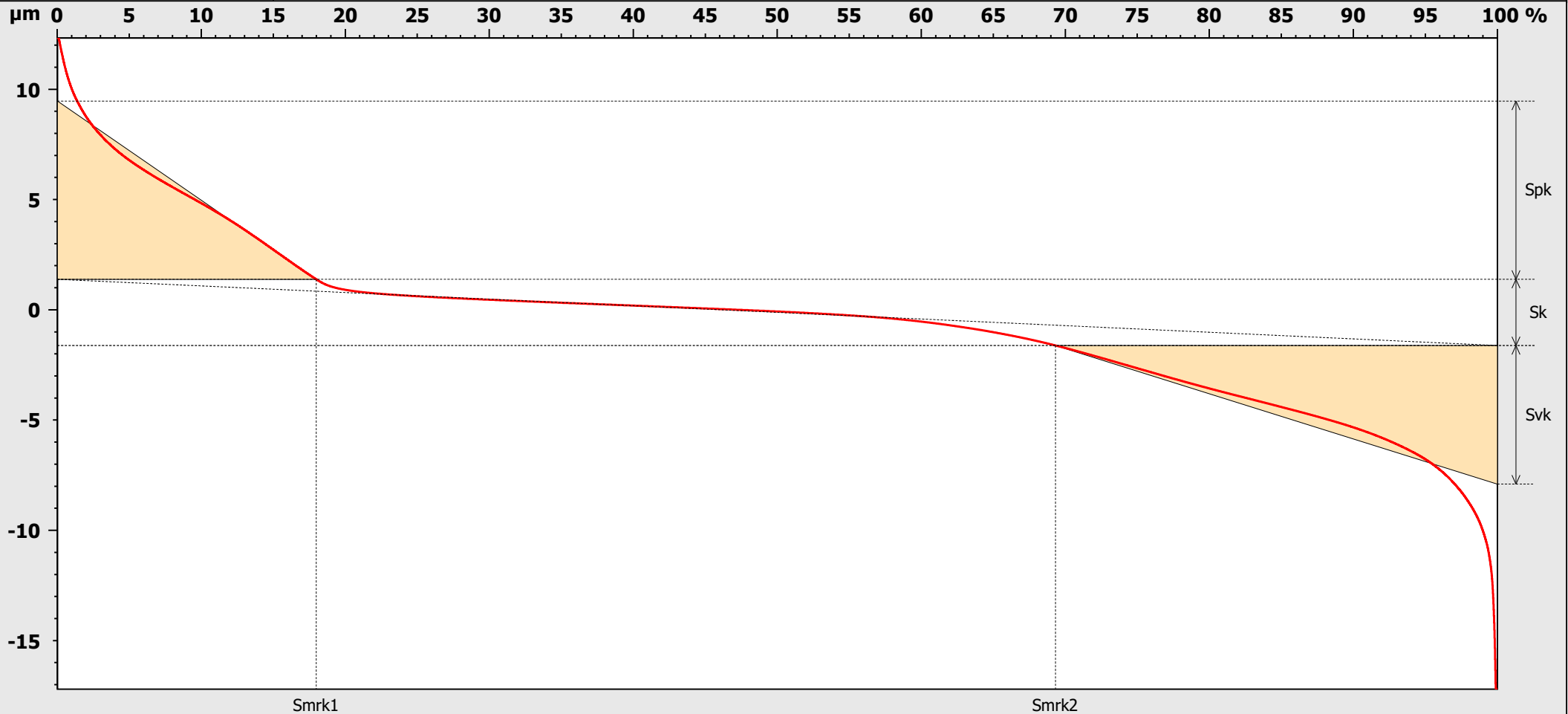
Sk 3.0 μm

Spk 7.9 μm

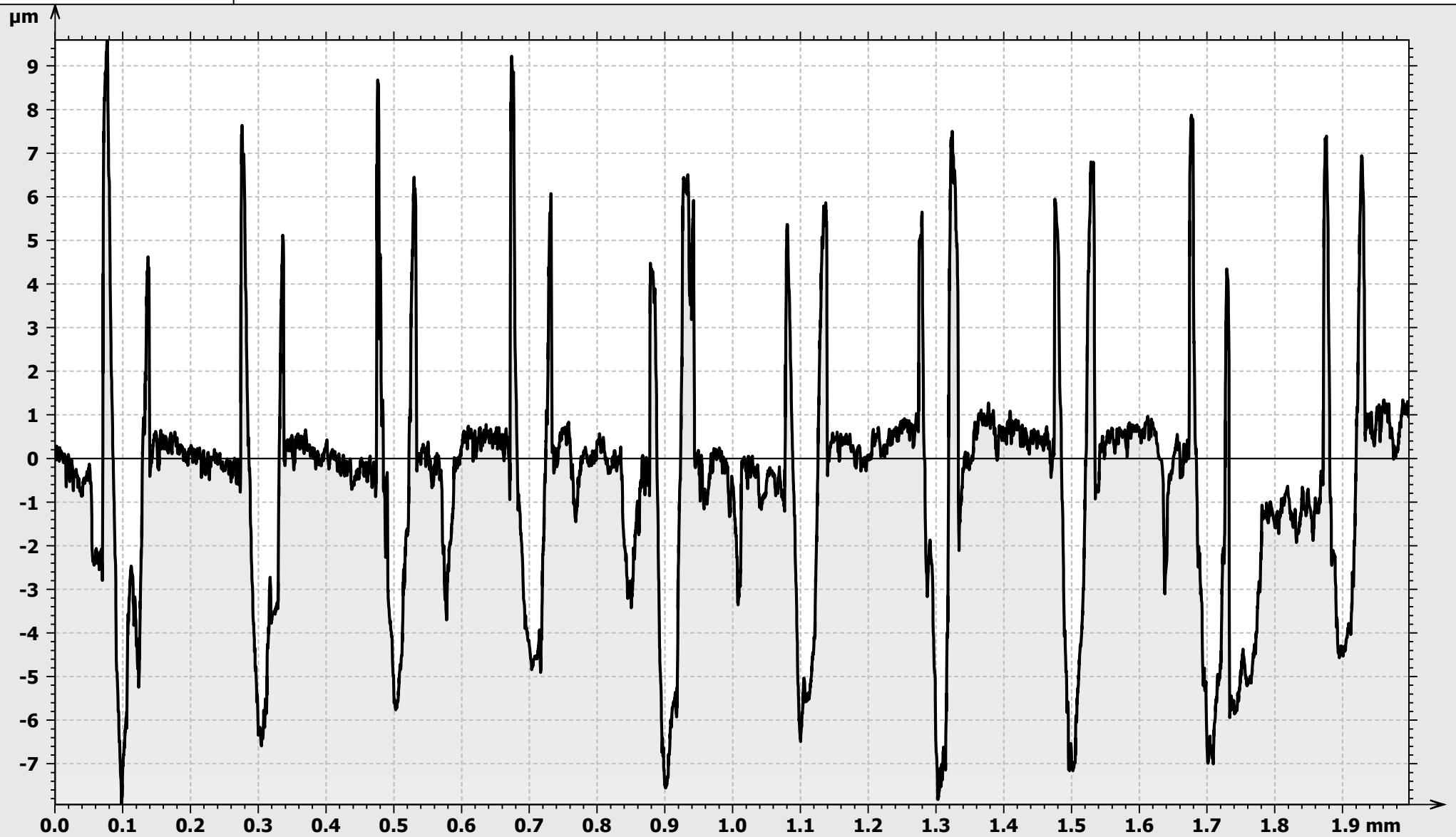
Svk 6.3 μm

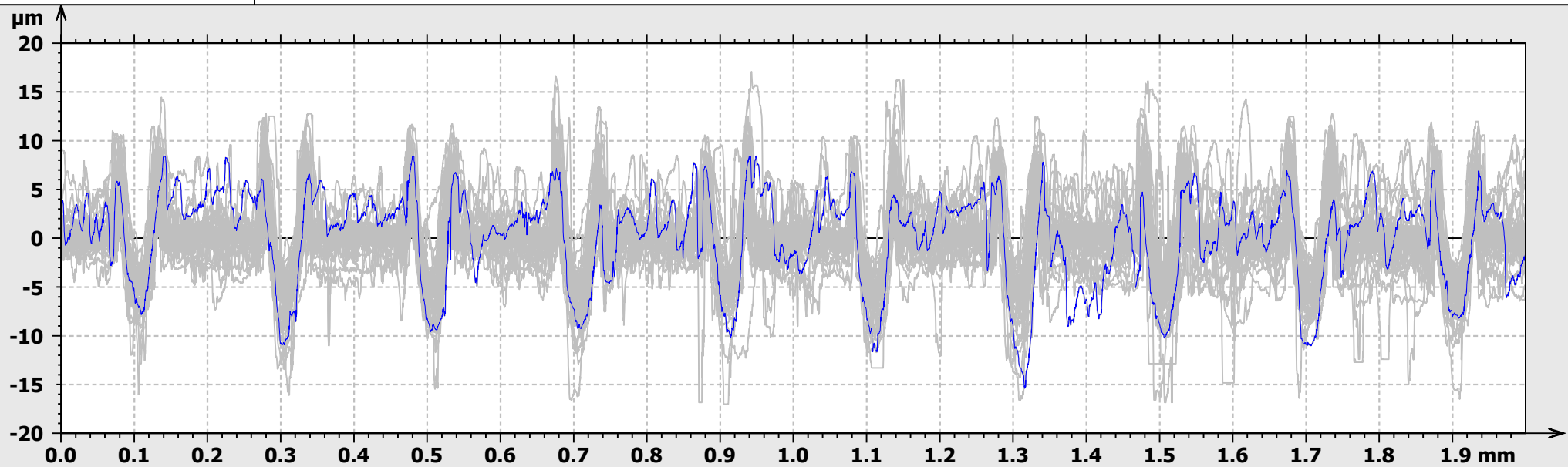






Parameters	Value	Unit
Sk	3.0	µm
Spk	8.1	µm
Svk	6.3	µm





Context	Mean	Std dev	Min	Max
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ISO 21920-Main - Roughness (S-L)

S-filter (λ_s): Gaussian, 2.5 μm

F-operation: None

L-filter (λ_c): Gaussian, 0.8 mm

Evaluation length: All λ_c (2)

Height parameters

Rq	μm	3.2	0.67	2.4	4.7
Rz	μm	20	2.7	15	27
Ra	μm	2.1	0.66	1.4	3.7

Spatial parameters

Ral	mm	$s = 0.2$	0.012	0.0021	0.0096	0.019
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