

Title	Spatially resolved determination of soil layer thickness on surfaces of 3D parts by measuring the fluorescence intensity
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Summary paragraph	A methodology for the optical determination of soil layer thickness by using fluorescent tracer is presented. It is shown how the thickness can be calculated by means of the fluorescence intensity. The influence of geometrical factors, e.g. position and distance of camera or UV lamp, is investigated and included in a model for calculating the soil layer thickness.
Novel/notable aspects	optical determination of soil layer thickness
Flow key words	
Cleaning type key words or Research topic	Surface hygiene, Cleanability, Soil, Layer thickness, Fluorescence
Field/background	Food industry
Theory/method/analysis key words	Cleaning test