

SITA

Contact-free cleanliness inspection
of part surfaces by fluorescence
measurement



SITA *CleanoSpector*

Cleanliness inspection – Layer thickness monitoring

SITA *CleanoSpector*

Advantages

Features

- Mobile and robust measuring device for flexible use at the process and in the laboratory
- Intuitive operation: simple and fast measurement
- Automatic calibration on reference surfaces

Application fields

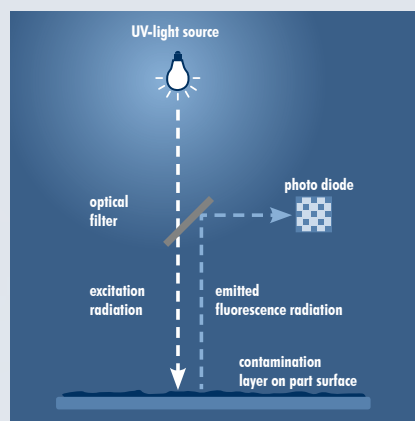
- Contact-free cleanliness inspection of part surfaces at the push of one button
- Quality assurance of industrial cleaning processes
- Layer thickness measurement e.g. of corrosion protection



Benefits

- Highest product quality by monitoring limit values
- Documentation of slightest contamination on various shaped surfaces
- Efficiency by process optimization

Fluorescence measuring principle



Cleanly inspected

Application examples

- Monitoring the cleanliness of automobile pistons before coating
- Incoming and outgoing control of housing parts after cleaning and before gluing processes
- Controlling the cleanliness of stainless steel parts before laser welding
- Evaluating the cleanliness of medical implants
- Detecting residual fluxing agents on bond pads before bonding



**The SITA CleanoSpector
assures a high part quality
in surface treatment processes.**

SITA *CleanoSpector*

Technical Data

Cleanliness

Measuring range	0...100 %
Resolution	0.1 %

Fluorescence intensity

Measuring range	0...2,000 RFU [Relative Fluorescence Unit]
Max. deviation	0.5 % of measuring range
Resolution	0.1 RFU
Excitation*	365 nm, max. 150 mW
Detection*	460 nm
Measuring point*	D = 1 mm
Measuring distance*	4.7 mm

* Standard values

Layer thickness

Measuring range	user-defined
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Power supply

Mains adapter / USB	100...240 / 5V
Li-Ion battery	3.6 V / 1,950 mAh min. 8 h operating time
Power consumption	2.5 W max.

Interface, memory, dimension, weight

USB-interface	data transfer
Display	LCD, illuminated
Measuring profiles	254
Memory	8,000 measuring values / profile
Dimensions (LxWxH)	
Hand-held device	129x82x48 mm
Sensor head	95x50x30 mm
Weight (device)	530 g

Windows-Software SITA-ProcessLog (optional)

- Guided part inspection and graphical display of measuring points on part surfaces
- Documentation and evaluation of the part cleanliness
- Administration and analysis of saved measuring values
- Quick and easy preparation of test reports
- Controlling the measurement via PC
- Simple generation and administration of measuring profiles

Contact

SITA Messtechnik GmbH
Gostritzer Straße 63
01217 Dresden
Germany

Tel.: +49 (0)351 8 71 8041
Fax: +49 (0)351 8 71 8464
info@sita-process.com
www.sita-process.com