



Fraunhofer

**TESTED[®]
DEVICE**

SAMICK PRECISION IND
LMES10UU

Report No. SA 1105-551

DUPLICATE

Statement of
Qualification

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Customer: SAMICK PRECISION IND. CO., LTD.
925-2, Wulam-Dong, Dalseo-Gu
704-833 Daegu
South Korea

Component tested:

Category: Automation Components
Subcategory: Transfer Systems and Bearings
Type: Linear bushing LMES10UU

Emission chamber measurements
• with thermodesorption and gas chromatography in combination with mass spectrometry (TD-GC/MS)

- Test procedure: • ISO 16000-6,-9,-11; VDI 2083 part 17 (VOC)
- Measuring instruments being used: • VOC:
– Working place: PerkinElmer Clarus 600, Clarus 600T, ATD 650
– Sample chamber: Markes International μ CTE
- Test parameters of the test execution: • Investigating the outgassing behavior of material samples at 23°C and 90°C

Test results:
(according to ISO 14644-8, VDI 2083 part 17)

The following specific emission rates were detected:

Test temperature	Specific emission rates and ISO-AMC _{unit} (x)-classification	
	TVOC	
	SER _{unit} [g/unit s]	ISO-AMC _{unit}
23°C	6.8×10^{-11}	-10.2
90°C	1.2×10^{-9}	--

The corresponding material classification ISO-AMC_{unit}(x) is given for each contaminant group x at room temperature.

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The measuring equipment used for the qualification is regularly calibrated and is based on national and international standards. In the case where no national standards exist, the measuring procedure used corresponds with technical regulations and norms valid at the time of the measurement. The documents drawn up for this procedure are available for viewing.

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.
Further information: www.tested-device.com.