

Fraunhofer

TESTED DEVICE

SAMICK PRECISION IND. LMES25uu

Report No. SA 2308-1446

Single product **Particle Emission**

Qualification Certificate

This is to certify that the product mentioned above, provided by

SAMICK PRECISION IND. CO., Ltd Daegu, South Korea

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number SA 2308-1446.

The linear bushing LMES25uu (color: black) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
v = 0.5 m/s; a = 1.0 m/s²	-
Overall result	5

In the course of the particle emission measurements, lubricant leakage was detected on the moving parts of the test piece. In addition to the released airborne particles, this represents a major contamination potential in cleanrooms and the production areas located therein. Therefore, use of the linear bushing in clean/hygienic areas is considered to be critical.

Please note: Transport damages, incorrect installation, oil leakage; aging behavior, corrosion etc. can influence the test result.

SA 1709-944 Report No. first document Stuttgart, February 23, 2018

Place, date of first document issued

SA 2308-1446

Report No. current document

Stuttgart, April 26, 2024

This document only applies to the named product in its original state and is valid for a period of 5 years from the current date the document was issued. The document can be verified under www.tested-device.com.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

