



**Fraunhofer**

**TESTED<sup>®</sup>  
DEVICE**

Asyrl SA  
Asycube Clean 230  
**Report No. AS 2503-1610**

DUPLICATE

Statement of  
Qualification

Single product  
Riboflavin Test  
(Equipment)

Customer

Asyrl SA  
Z.I. du Vivier 22  
1690 Villaz-St-Pierre  
Switzerland

Tested product

Category: Automation components

Subcategory: Transfer Systems and Bearing

Product name: Asycube Clean 230  
(manufacturing date: 11/7/2024; weight: 11 kg; serial number: A24450139)

Cleanability test (riboflavin test)

Standards/guidelines: VDMA information sheet »Riboflavin test for low-germ or sterile process technologies – Fluorescence test for examination of cleanability«. The norms stated generally refer to the version valid at the time of the tests.

Test environment parameters: Laboratory

Test procedure parameters:

- Test solution: .....0.2 g riboflavin, 1.0 g hydroxethylcellulose .....in 1000 ml ultrapure water
- Application of test solution:..... pump spray
- Drying time: ..... approx. 2 -3 h
- Cleaning method:..... wiping
- Cleaning medium: .....ultrapure water
- Number of wiping cycles: ..... 3
- UV-light: .....λ = 366 nm

The cleanability is examined and assessed qualitatively. The assesement based on the amount and size of defects occuring.

Test result / Classification

The feeding system Asycube Clean 230 can be cleaned well using a simple wiping procedure with ultra-pure water. The fluorescence test identified some critical areas. These areas have to be cleaned especially thoroughly or using a more complex procedure, e.g. by removing certain parts before cleaning.

System component	Assessment of cleanability
Asycube Clean 230	good

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

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

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Business unit Testing and Certification


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on behalf of   
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

Stuttgart, April 10, 2025

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