



valid until: April 20, 2031

Fraunhofer

TESTED[®] DEVICE

Ammega Group B.V.
22EX06ESD vacuum
Report No. AM 2507-1651

Single product Electrical Resistance in Dry-Cleanroom

Qualification Certificate

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

Ammega Group B.V.
Heerhugowaard, The Netherlands

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number AM 2507-1651.

The transfer system 22EX06ESD vacuum (material: aluminium) was tested based on IEC 61340-2-3. The product measurement relevant for the product qualification is below the limit value $1 \times 10^9 \Omega$ specified in IEC 61340-5-1 for ESD protective elements. Some surfaces show insulating properties, it is recommended to measure the electrostatic field at the point where the ESDs are handled. If the measured field strength exceeds 5000 V/m, charge-reducing measures should be applied to prevent electrostatic phenomena.

Resistances to groundable point (R_{gp})		
Measuring points	Max. σ -values	Limit value
Potential to contact ESDS	$6.9 \times 10^4 \Omega$	fulfilled
Without potential to contact ESDS	$1.2 \times 10^{12} \Omega$	not fulfilled
Point-to-point resistances (R_{p-p})		
Measuring point pairings	Max. σ -values	Limit value
Potential to contact ESDS – potential to contact ESDS	$4.8 \times 10^3 \Omega$	fulfilled
Potential to contact ESDS – no potential to contact ESDS	$1.2 \times 10^{12} \Omega$	not fulfilled

AM 2507-1651
Report No. first document

Stuttgart, April 20, 2026
Place, date of first document issued

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Report No. current document

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Place, current date

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

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first 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.

The norms stated generally refer to the version valid at the time of the tests.