

Certificate of Traceability

PIN: PU1000-01

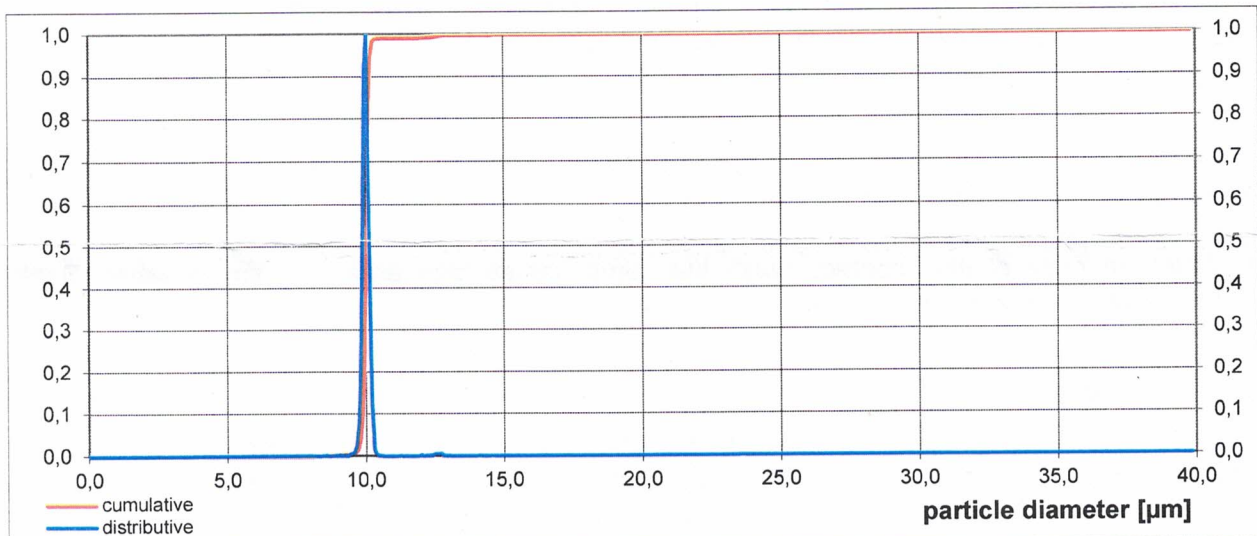


Particle powder size standard – PU series

Size standard for the calibration and validation of particle sizing instruments, traceable to the International System of Units (SI), including NIST traceability

Methods applied: Electrical Sensing Zone
Single Particle Optical Sizing
Optical Microscopy or Electron Microscopy

Nominal diameter: 10,0 μm
Certified mean diameter: 9,99 μm
Expanded uncertainty (k=2): 0,091 μm
Standard deviation: 0,146 μm
Relative standard deviation (CV): 1,5 %



Product data

Product Identification Number: PU1000-01
Material: Polymer particle powder
Chemical composition: Polystyrene or poly(styrene-co-divinylbenzene), trace amounts of surfactants (< 0,01 %)
Production lot number: WS0273.231
Packaging lot number: WS0273.2311
Packaging date: 29.03.2023
Expiration date: 31.03.2028

Signed:

A handwritten signature in blue ink, appearing to read "K. Eslahian".

Dr. Kyriakos Eslahian, CEO

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Particle powder size standard – PU series

Physical data

Nominal density:	1,05 g / cm ³
Refractive index:	1,59 @ 25 °C
Surface characteristics:	<i>Not applicable</i>
Parking area:	<i>Not applicable</i>

Instructions for use

This product was designed for the calibration or validation of particle sizing instruments for the analysis of dry powders. Equipment should be free of particles prior to application in order to avoid contamination. The particle powder size standards tend to agglomerate when exposed to moisture. This particle powder standard should only be used in powder form and should not be brought into suspension as this will nullify its certified properties.

Safety

These products are to be used by trained personal only. Work in a well ventilated environment; avoid inhalation and ingestion. In case of aerosolization of this product, wear a suitable filter respirator. In case of skin contact, wash the contaminated skin area with ample water. Seek medical attention in case of accidental ingestion or inhalation.

Storage and disposal

Store the bottle in upright position and keep well sealed when not in use. Prevent any contact with chemicals and keep this product dry. Avoid contamination and prevent exposure to direct sunlight. Store at 4 – 30 °C. Do not freeze the particles. Dispose bottle and dry contents with general laboratory waste.

Limited warranty

This product is to be used under laboratory conditions by trained scientific operators only. Incorrect use and handling can result in wrong measurements or unreliable data, in which case the certified properties may be lost. Deviations from recommended storage conditions or handling instructions can reduce the stability.

The analysis of measurement data as well as the determination of suitability for a specific application is the responsibility of the user. The warranty of the manufacturer is limited to replacement of defective products if returned with prior authorisation, within 60 days from delivery.