



Bahnstraße 10
D-65205 Wiesbaden

Tel.: 0611 / 7-888-999
Fax: 0611 / 97-218-44

Email: support@bs-partikel.de
URL: http://www.bs-partikel.de

Certificate

Cat. No.
Oi0028-200

Product:

ISO-MTD2.8-Test Standard

Lot No.: K1-130320

Components of the Product:

Hydraulic Oil 200mL, Aeroshell fluid 120711
ISO-MTD Dust: 2,8mg/L, 8631 MTD
Certificate: 1x

Particle Counting System:

Particle Counter PZG 3/4, Markus Klotz GmbH, Bad Liebenzell, Germany
Sensor: 1517 Flow: 20.0 mL/min

Calibration:

Calibration performed with Reference Sensor No. 1517 due to ISO 11171
using NIST traceable Calibrationstandards

*) NIST: Institute of Standards and Technology, Gaithersburg - USA

Size Channel	Counts	Uncertainty
≥ 4.0µm	60990 Particles/10mL	±1.480 Particles/10mL (± 2.4%)
≥ 6.0µm	23910 Particles/10mL	± 850 Particles/10mL (± 3.6%)
≥ 14.0µm	1720 Particles/10mL	± 105 Particles/10mL (± 6.1%)
≥ 25.0µm	430 Particles/10mL	± 30 Particles/10mL (± 7.0%)
≥ 50.0µm	32 Particles/10mL	± 5 Particles/10mL (± 15.6%)

To determine these data 8 ISO-MTD2.8-Test Standards have been measured during filling.

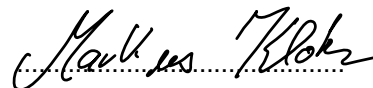
Density (Hydraulic Oil):

0.878 g/mL

Refractive Index ((Hydraulic Oil):

1.549 (25°C, 589nm)

Operator:


Markus Klotz

Wiesbaden - 1.9.2012


Dr. Bernd Schied



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Application

0. Cautions

- 0.1 Avoid measurements during days with high humidity
- 0.2 Do not start measurements when water-containing samples had been measured before.
Rinse your particle counter in these cases with particle free oil several times before!

1. Preparing the ISO-MTD2.8-Test Standard

- 1.1 Shake the bottle for 1 minute vigorously
- 1.2 Put the bottle into an ultra sonic bath for 1 minute
- 1.3 Repeat step 1.1 and 1.2 three times
- 1.4 Finally put the bottle into an ultra sonic bath with enabled "Degas" option for 1 minute

2. Measuring the ISO-MTD2.8-Test Standards

- 2.1 Start your particle counter with a rinsing of 20mL of the ISO-MTD2.8-Test standard
- 2.2 Perform 3 consecutive measurements of 10mL each **within 3 minutes**

3. Documentation of the Data and Evaluation

- 2.2 Record the three particle numbers in the Result Record Form below and calculate the averages
- 2.3 File this certificate in a certificate in a ring binder for your QC documentation

Result Record Form

Prüfpaß

Size Channel Größenklasse	Measured Counts Meßwerte	Average Mittelwert	Certif.Counts Zertif. Werte	Difference Abs. Differenz	Percentage Proz.Differenz	Company Specifications Firmen Spezif.	ok ?
≥ 4,0µm	1.		60990 Part./10mL				
	2.						
	3.						
≥ 6,0µm	1.		23910 Part./10mL				
	2.						
	3.						
≥ 14,0µm	1.		1720 Part./10mL				
	2.						
	3.						
≥ 25,0µm	1.		430 Part./10mL				
	2.						
	3.						
≥ 50,0µm	1.		32 Part./10mL				
	2.						
	3.						

Particle Counter
Partikelzählgerät

Operator

Department
Abteilung

Sign Unterschrift

Date Datum

Test passed? Test bestanden?

yes ja

no nein

Storage, Shelf Life

This ISO-MTD2.8-Test Standard should be stored in vertical position at 4°C - 15°C together with other chemical reference materials but not with daily-used chemicals. Do not freeze this product! The ISO-MTD2.8-Test Standard can be used without any quality loss for 3 years from shipping date.

Shipping Date: