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# Calibration Certificate

Name of Item

Standard Liquid for Calibrating Viscometers

Type

JS 000

S/N

LOT NO.000

Name of Manufacturer

NIPPON GREASE Co., Ltd.

Calibration item

Kinematic Viscosity and Viscosity

Calibration method

As per description in next page

Calibration condition

As per description in next page

Calibration place

1-12-4 Suehiro cho, Tsurumi-ku, Yokohama-shi,

Kanagawa-ken 280,0045, Japan

Calibration date

MMMM DD, YYYX~MMMM DD, YYYY

The calibration results are showed in the next page.

MMMM DD, YYYY

Person in charge of issue:

00 00

Calibration laboratory NIPPON GREASE Co., Ltd.

1-12-4 Suehiro-cho, Tsurumi-ku, Yokohama-shi,

Kanagawa-ken 230-0045, Japan

<sup>-</sup>This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the international System of Units (SI). The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

<sup>-</sup>The certificate shall not be reproduced except in full, without the prior written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2005.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia pacific Laboratory Accreditation Cooperation (APLAC). This (These) calibration result(s) may be accepted internationally through ILAC/APLAC MRA.

# Calibration Results

Temperature $(\mathbb{C})$	Kinematic Viscosity(mm <sup>2</sup> /s)	Viscosity(mPa·s)
00.00	$000.00 \pm 0.00$	$000.00 \pm 0.00$
00.00	$000.00 \pm 0.00$	$000.00 \pm 0.00$
00.00	$000.00 \pm 0.00$	$000.00 \pm 0.00$

## Uncertainty of Measurement:

The number following the symbol  $\pm$  is the numerical value of an expanded uncertainty obtained by multiplying a combined standard uncertainty by a coverage factor k=2. The coverage factor k=2 corresponds to a level of confidence of approximately 95% for a normal distribution.

Extended uncertainty contains the rate of change per year of the Kinematic viscosity of unopened liquid.

#### Calibration method:

Kinematic viscosity measurements have been made by using capillary type master viscometers.

Viscosity is the product of the measured kinematic viscosity and density, both at the same temperature.

#### Calibration condition:

Ambience condition of room

Temperature ( $\mathbb{C}$ )	Humidity(%)	Atmospheric Pressure(hPa)
00.0~00.0	00.0~00.0	0000~0000

The viscosity is calculated from the density measured by pyknometer.

Temperature( ${}^{\circ}\!$	Density $(g/cm^3)$
00.00	$0.000\ 00\ \pm 0.000\ 00$
00.00	$0.000\ 00\ \pm 0.000\ 00$
00.00	$0.000\ 00\ \pm0.000\ 00$

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