TQC sheen

TQC Sheen Viscosity Calibration Oils – 442 Series

INDUSTRIAL PHYSICS

Protecting
Product Integrity

TQC Sheen 442 Series Viscosity Calibration Oils

The TQC Sheen 442 Series offers high-quality viscosity calibration oils designed for accurate, traceable calibration of viscosity measurement devices. Developed in accordance with ASTM D2162, this range covers multiple temperature points—20°C to 25°C—for reliable performance across varying conditions.

Reliable and Traceable Calibration

Crafted for laboratories and production environments, the 442 Series Viscosity Calibration Oils are engineered to support consistent, high-precision viscosity measurements. With more calibration temperature points than typical standard ranges, this series enables detailed verification across a wide range of instruments—including viscosity cups, glass capillary viscometers, rotational viscometers, and automatic systems.

Simple, Accurate, and Versatile

Each oil is traceably calibrated for kinematic and dynamic viscosity, with interpolated values to provide detailed, actionable data. The oils are compatible with a wide variety of TQC Sheen and third-party viscometers such as Zahn Cups (ASTM D1084/D4212), Ford Cups (ASTM D1200), DIN 53211 Immersion Cups, the Sheen Rotothinner, Digital Krebs Viscometer, and Cone and Plate Viscometer.

Whether you're working in R&D, production, or quality control, the 442 Series simplifies the calibration process while ensuring dependable accuracy.

How to Use and Maintain Calibration Oils

To maintain the accuracy and shelf life of your calibration oil, always store it sealed between 15°C and 30°C. Each bottle comes with a certificate confirming calibration in accordance with ASTM D2162, including values for kinematic viscosity (cSt), dynamic viscosity (cP / mPa·s), and specific gravity (g/mL). These certificates also indicate a 3-year shelf life under proper storage conditions.

For select oils, calculated Krebs Unit (KU) values are provided for reference—please note that these are not included in the official certification and only apply to specific types within the range.

Industry Compliance and Application

Ideal for routine instrument verification and calibration in laboratories, manufacturing, and industrial testing facilities, the 442 Series supports compliance with ASTM standards and quality control protocols. These oils are a dependable choice for professionals who demand precision in viscosity measurements, whatever the application.

Technical Specification:

Size:	500 ml (Glass bottle or plastic container dependant on oil)
Material:	High-quality mineral oil
Application:	Viscosity testing for liquids, coatings, and surface materials
Shelf Life	3 Years
Compatible with:	TQC Sheen viscosity cups and rotational viscosity meters

Features & benefits:

- High-precision calibration for viscosity instruments
- Certified to ASTM D2162, traceable to national standards
- Extended temperature calibration data from 20°C to 25°C, including interpolated values
- Calculated KU values available for specific oils
- Packaged in 500 mL glass or plastic containers
- Shelf life: 3 years, as indicated on the certificate
- Formulated using high-quality mineral oil

Technical Specification:

Viscosity Calibration Oil		Viscosity for Cups: Viscosity in cSt:		Viscosity for Rotational: Viscosity in cP: (mPas)		Krebs Units: (KU)		Specific Gravity: (sg in g/ml)	
SKU:	Type:	20°C	25°C	20°C	25°C	20°C	25°C	20°C	25°C
SH0156	442/4	10.55	8.912	8.911	7.498	54.1	50.2	0.8446	0.8413
SH0194	442/5	20.72	16.92	17.53	14.26	58.4	53.5	0.8461	0.8429
SH0224	442/6	42.83	33.76	36.35	28.54	62.1	56.5	0.8487	0.8455
SH0250	442/7	84.16	64.35	71.96	54.81	66.2	59.8	0.855	0.8518
SH0259	442/8	158.5	117.9	136.4	101.1	69.3	62.4	0.8606	0.8575
SH0280	442/9	329	237.4	285.2	205.1	58,66	53.82	0.8669	0.8638
SH0630	442/10	642.1	453.9	559.2	393.9	71.58	64.34	0.8709	0.8679
SH0659	442/11	1139	793.7	992.1	688.9	85.7	76.4	0.8710	0.8680
SH0675	442/12	1179	818.4	1031	712.9	86.76	77,23	0.8741	0.8711
SH0692	442/13	1369	988.1	1158	833.1	89.96	81.12	0.8461	0.8431
SH0699	442/14	2053	1409	1799	1231	102.89	91.69	0.8764	0.8735
SH0718	442/15	4256	2866	3749	2516	129.01	113.95	0.8808	0.8779
SH0727	442/16	7946	5232	7008	4599	168.5	148.7	0.882	0.8791
SH0741	442/17	15813	10456	14042	9256	182.6	161.7	0.888	0.8852
SH0750	442/18	24835	22306	31028	19808	191.6	170.3	0.8907	0.888
SH0766	442/19	137816	85532	123511	76423	218.7	194.6	0.8962	0.8962
SH0793	442/20	35290	22654	31426	20110	231.0	207.2	0.8905	0.8877
SH0835	442/22	44.02	34.46	37.53	29.27	40.8	40.0	0.8526	0.8494
SH0855	442/24	3399	2271	2989	1990	120.3	106.0	0.8793	0.8763

Please note: *Nominal values are listed in the table above*

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