



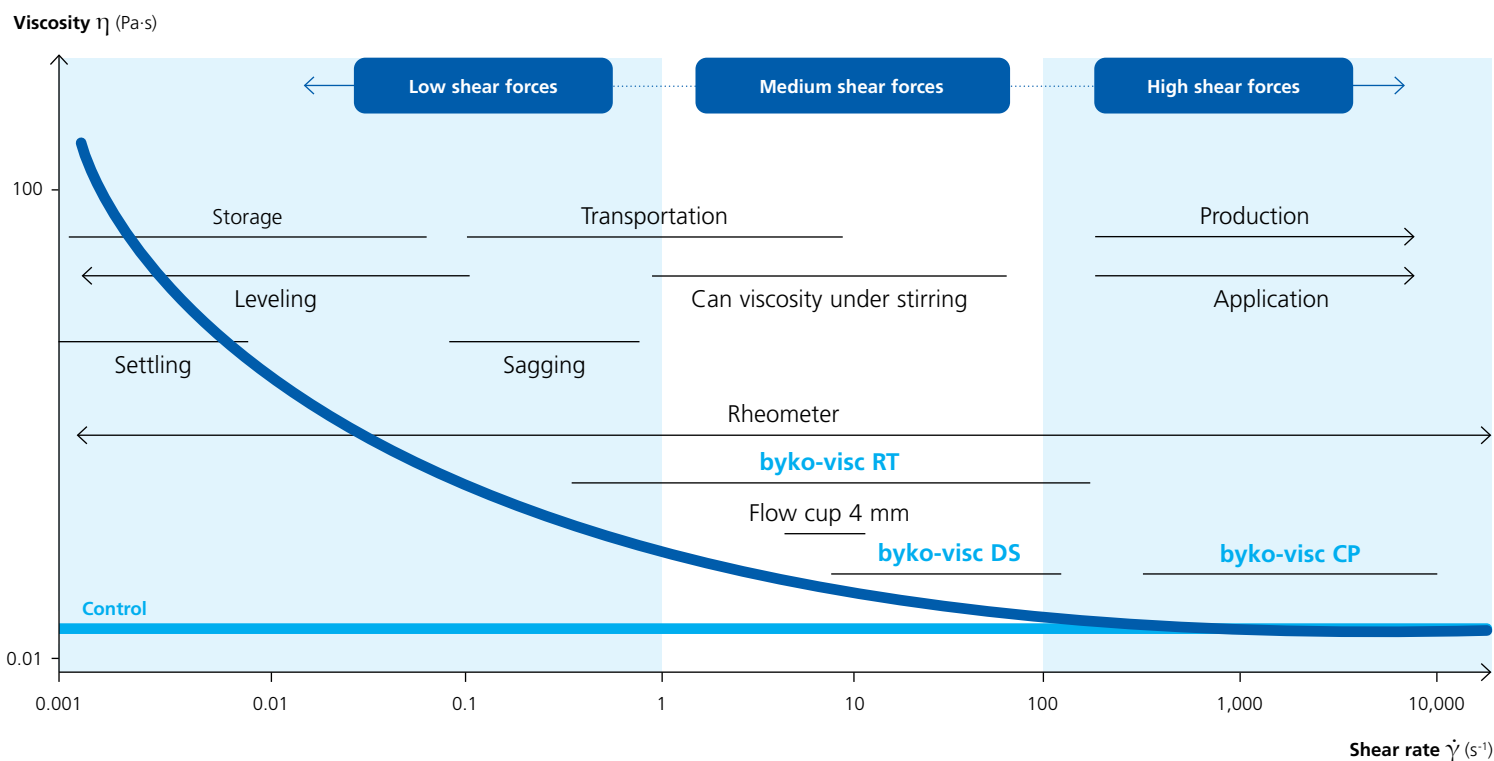
byko-visc Family

Rotate and flow through thick and thin

Viscosity is an important material property which needs to be specified and controlled to optimize how a liquid flows, spreads, or levels under certain conditions. The byko-visc series offer the perfect solutions for viscosity measurements in quality control.

BYK-Gardner offers three distinct varieties of rotational viscometers for different applications:

- The **byko-visc RT** is the most versatile of this product line.
- The **byko-visc DS** offers easy viscosity measurements according to ASTM D562 right inside the paint can.
- The **byko-visc CP**, cone and plate viscometer determines the absolute viscosity of small samples with highest precision. Its high shear rate method ensures reliable measurement of applications like brushing, rolling, and spraying.



Whether you need high or low shear rate, the byko-visc series of viscometers cover all your needs. From decorative to automotive finishes, we offer the full range of viscosity determinations to ensure the best possible quality for your samples.



byko-visc RT – Rotational viscometer

The byko-visc RT is a rotational viscometer with a rotating spindle that is immersed into a fluid whose viscosity is to be measured. It runs on the principle, that the required torque to turn this spindle, is proportional to the viscosity of that fluid. The torque is measured by a highly sensitive spring which in turn sets the measurement range.

- Measure a wide range of viscosities – Choose your model and enjoy flexibility in measurements
- Electronic bubble leveling with adjustable feet
- Brilliant 5" color touch display
- Quick disconnect spindles made from high-quality 316 stainless steel with an easy snap-on attachment

Convenient adjustable stand

The adjustable stand allows a user to easily raise and lower the viscometer head by twisting the knob on the side. This allows for appropriate ergonomics due to both counter, and operator height and preference.

No effort spindle change

With the easy snap-on spindle attachment, you can quickly switch out spindles with no effort. No need to screw on the spindle. This saves valuable operator time and protects the instrument!

Ease of use to increase efficiency

The byko-visc RT offers intuitive navigation, a multitude of control options, and a large capacitive color touch-screen display. It includes preset buttons to quickly recall often used measuring parameters. These benefits reduce operator time, meaning you'll spend less time setting up and more time getting your work done.



byko-visc CP – Cone and plate viscometer

The byko-visc CP Cone and Plate viscometer allows for the precise determination of the absolute viscosity of materials using minimal sample sizes. It can measure and predict the performance of your samples closer to the conditions in your manufacturing or application process such as spreading of paint on a wall or flowing of a polymer melt inside a pipe.

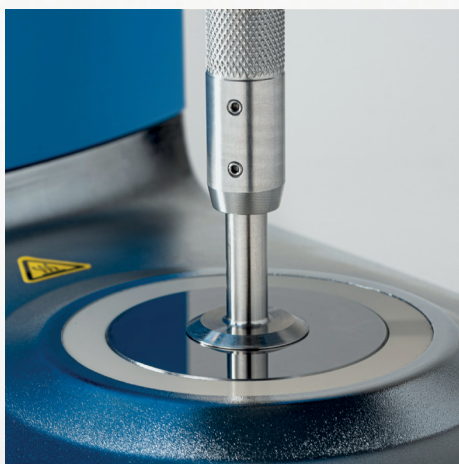
The cone and plate viscometer consists of two primary components: a stationary, flat-bottomed plate and an inverted, conical spindle. When placed on a fluid sample, the spindle rotates at a constant speed while its motion is monitored. The torque exerted on the shaft reveals the rheological properties of the fluid, thus providing an accurate measure of viscosity.

- Fixed cone geometries allow for absolute viscosity determination
- Small (<2mL) sample sizes save both material and time required to clean instrument
- Constant shear rates throughout the sample make it ideal for non-Newtonian samples
- Measure high and low shear applications with one instrument
- Switch cones without the need for recalibration with easy bayonet coupling attachment

Built-in temperature control

Temperature is an important parameter in viscosity measurements because it influences the fluid's properties. Generally, most fluids become more viscous at lower temperatures and less viscous as temperature increases.

- Small sample sizes allow for rapid heating and cooling of the analyte
- Robust tungsten carbide sample plate guarantees longevity



measure the visible and beyond.



byko-visc DS – Krebs stormer viscometer

The byko-visc DS is an easy-to-use digital Stormer viscometer that automatically calculates and displays the viscosity of your sample in Krebs units, centipoise or gram units.

Krebs units (KU) are a measure of viscosity specific to the Krebs Stormer viscometer. One Krebs unit represents the weight in grams required to turn the paddle spindle submerged in a sample at 200 RPM.

This simple method allows for the measurement of the in-can viscosity of paint while stirring with constant force and therefore simulates with good accuracy most customer use cases.

An intuitive interface with automatic speed control at 200 rpm facilitates measurements according to ASTM D562.

Features

- Measures viscosity of architectural paints according to ASTM D562
- Viscosity range between 40 and 141 KU
- Made for direct measurement inside of paint cans

Designed for testing decorative paints in cans

The instrument is designed to accommodate standard US paint cans of quart, pint and half pint sizes. Quart cans can be placed directly on the base. An adapter for the other sizes is included with the instrument.

Catalog number	8350	8351	8352	8356	8357	8358
Product name	byko-visc RT Lite L	byko-visc RT Lite R	byko-visc RT Lite H	byko-visc RT L	byko-visc RT R	byko-visc RT H
Viscosity range	Low	Regular	High	Low	Regular	High
Measuring range	5–2 Mio. cP	30–13.3 Mio. cP	240–106 Mio. cP	4–6 Mio. cP	26–40 Mio. cP	195–320 Mio. cP
No. of speeds	21			Freely selectable		
Speed range	0.3–200 rpm			0.1–250 rpm		
No. of spindles	4*	6*		4	6	
Repeatability	0.2 %					
Accuracy	1.0 % full scale range					
Power supply	Worldwide power supply, 24v voltage DC input/Separate 24 VDC power supply					
Weight	6.5 kg (14.3 lb)					
Dimensions: L × W × H	25 × 31 × 47 cm (9.8 × 12.2 × 18.5 in)					
Languages	English, German, French, Italian, Spanish, Russian, Japanese, Chinese					

Delivery content

Instrument with stand and power supply, Spindle set 4982–4984 for L; 4988–4993 for R and H (RT and RT Lite only), Spindle rack (RT and RT Lite only), Spindle guard (RT and RT Lite only), 17025 certificate, Temperature probe 8363 (RT only)

* Also available as base versions without spindle

Catalog number	5210	5211	5212	5213
Product name	byko-visc CP L	byko-visc CP H	byko-visc CP Lite L	byko-visc CP Lite H
Measuring range	15–1.5 Mio. cP		20–75000 cP	
Temperature range	5–75 °C (41–167 °F)	50–235 °C (122–455 °F)	5–75 °C (41–167 °F)	50–235 °C (122–455 °F)
Shear rate	10–13,300 1/sec		200–12,000 1/sec	
No. of spindles	10 (not included)			
No. of speeds	Freely selectable		4	
Speed range	5–1000 rpm		100–900 rpm	
Speeds	variable		100, 400, 750 & 900 rpm	
Repeatability	0.2 %			
Accuracy	±2.0 % of full scale			
Power supply	Worldwide power supply, 24 V voltage DC input/Separate 24 V DC power supply			
Weight	6.5 kg (14.3 lb)			
Dimensions: L × W × H	30 × 17 × 43 cm (11.5 × 6.5 × 17 in)			
Languages	English, German, French, Italian, Spanish, Portuguese, Japanese, Chinese			

Delivery content

Cone and plate viscometer, power supply, certificate

Catalog number	8324
Product name	byko-visc DS
Resolution	0.1 KU; 1.0 g; 0.7 cP
Measuring range	40–141 KU; 32–1090 g; 27–5274 cP
Spindle speed	200 rpm ±0.1 rpm
Repeatability	within ±0.5 % full scale
Accuracy	within ±1 % full scale
Power supply	100–230 V, 50/60 Hz
Operating temperature	10–40 °C (50–104 °F)
Dimensions: L × W × H	38 × 28 × 51 cm (15 × 11 × 20 in)

Delivery content

Viscometer, paddle spindle (8340), adapter for 1 pint and 1/2 pint containers, certificate, manual