

Standard Fluids for Viscometer Calibration

TOKI SANGYO sells standard fluids for viscometer calibration conforming to the JIS Z 8809 viscometer calibration fluid standard. Viscosity values of the fluids are certified (with values) by the National Institute of Advanced Industrial Science and Technology and the fluids are supplied with test certificates. Temperature-viscosity computation tables, in 0.1°C increments, are also attached.

These fluids are utilized as viscosity measurement criteria and help to improve the accuracy of viscosity measurement.

1. Standard fluid types

(standard criteria values to JIS Z 8809 and summary values)

Type	Criteria Values		Summary Values			
	Kinematic Viscosity mm ³ /s		Viscosity (mPa·s)			
	20°C	20°C	20°C	25°C	30°C	40°C
JS 2.5	2.5	2.0	—	1.6	1.4	
JS 5	5.0	4.1	—	3.2	2.5	
JS 10	10	8.4	—	6.1	4.6	
JS 20	20	17	—	11	8.2	
JS 50	50	43	—	27	18	
JS 100	100	86	—	51	32	
JS 200	200	170	—	95	56	
JS 500	500	440	—	230	130	
JS 1000	1,000	890	—	430	230	
JS 2000	2,000	1,800	—	820	420	
JS 14000	14,000	12,000	—	4,800	2,100	
JS 52000	52,000	46,000	—	18,000	7,500	
JS 160000	160,000	140,000	90,000	—	—	

2. Standard fluid composition

Standard fluids are of oil-base or synthetic hydrocarbon oil composition. The fluids are carefully manufactured to the highest standards for viscometer calibration and possess extremely stable properties.

3. Handling of standard fluids

Standard fluids should not be returned to the container after use and reuse should be avoided. The fluids should be used as quickly as possible after the container is opened.

4. Cleaning

After using standard fluids, employ a good solvent (such as petroleum ether, normal hexane, or heptane) with relatively good cleansing properties to clean rotor, container, etc. Maintain cleanliness of the components.

5. Storage of standard fluids

Although standard fluids have stable properties, when storing, their containers should be tightly closed, and kept in a dark place at room temperature avoiding heat or light. As a general rule, the recommended storage period is 1 year (or less) after the container is opened.

