

Tannas Reference Oils & Catalysts

Product Guide



General Instrument Viscosity Standards

High-Temperature, Newtonian Viscosity Reference Oils

Product Name	Nominal Viscosity (mPa*s) (cP) / (mm ² /s) (cSt)										Applicable ASTM Test Methods	
	40°C		80°C		100°C		120°C		150°C			
	cP	cSt	cP	cSt	cP	cSt	cP	cSt	cP	cSt		
R-100	11	13	3.7	4.5	2.5	3.1	1.8	2.3	1.2	1.6	D445 (Kinematic Viscosity)	
R-200	17	20	5.0	6.0	3.3	4.0	2.3	2.9	1.5	1.9		
R-300	26	30	7.0	8.2	4.3	5.2	2.9	3.6	1.8	2.3		
R-350	56	65	12	14	7.0	8.5	4.8	5.9	2.7	3.4		
R-400	96	111	18	21	9.9	12	6.2	7.6	3.6	4.4		D2161 (Saybolt Viscosity)
R-450	109	127	20	25	12	14	7.2	8.8	4.1	5.2		D4683 (Tapered Bearing Simulator Viscometer)
R-500	130	153	25	31	14	17	9.0	11	5.0	6.3		
R-600	347	400	50	59	25	30	14	17	7.4	9.3		D4741 (Tapered Plug Viscometer)
R-2200	16	19	4.8	5.6	3.1	3.7	2.3	2.8	1.5	1.8		
R-2300	32	38	8.1	9.7	5.0	6.0	3.4	4.1	2.1	2.6		D5481 (HTHS Capillary)
R-2350	48	56	12	14	6.9	8.4	4.6	5.6	2.8	3.5		
R-2400	96	110	18	21	10	12	6.3	7.6	3.6	4.4		
R-2450	115	131	22	25	12	14	7.5	9.1	4.3	5.2		

SavanTech® Certified Data Includes:

- 1) Dynamic Viscosity to 4 significant figures @ each specified temperature above.
- 2) Kinematic Viscosity to 4 significant figures @ each specified temperature above.
- 3) Density {±0.0001 g/mL} @ each specified temperature above.

Volatility Reference Oils

Product Name	Nominal Loss	Temp.	Applicable ASTM Test Methods
SNL-75	7%	250°C	NOACK D5800 TGA @ 250°C
SNH-200	25%	250°C	
SNCaI-150	12%	250°C	
200°C-SNC	10%	200°C	

Foam Tendency Reference Oils

Product Name	Test Sequence	Temp.	Applicable ASTM Test Methods
F-100	I, II, and III	24°C 93.5°C	D892
F-200	II and IV	93.5°C 150°C	D6082

High-Temperature, High Shear Non-Newtonian Viscosity Reference Oils

Product Name	Nominal Viscosity @ 10 ⁶ sec ⁻¹ (mPa*s) (cP)	Temp.	Applicable ASTM Test Methods
NNR-03	3.55	150°C	D4683 (TBS) D6616 (TBS)
NNR-10	10.0	100°C	D4741 (Tapered Plug)
NNR-80	7.05	80°C	D5481 (Capillary)

Low-Temperature, Newtonian Viscosity Reference Oils

Product Name	Nominal Viscosity (mPa*s) (cP) / (mm ² /s) (cSt)																	
	-5°C		-10°C		-15°C		-20°C		-25°C		-30°C		-35°C		-40°C			
	cP	cSt	cP	cSt	cP	cSt	cP	cSt	cP	cSt	cP	cSt	cP	cSt	cP	cSt		
LNP-5	1300	1500	2100	2500	3300	3900	5600	6400	9500	11,000	17,000	19,000	33,000	38,000	66,000	75,000		
SavanTech® Certified Data Includes:											Applicable ASTM Test Methods							
1) Dynamic Viscosity to 3 significant figures @ each specified temperature above.											D445 (KV)		D2983 (Brookfield)		D3829 (MRV)			
2) Kinematic Viscosity to 3 significant figures @ each specified temperature above.											D4684 (MRV-TPI)		D5133 (Scanning Brookfield)					
3) Density {±0.0005 g/mL} @ each specified temperature above.																		

Instrument Specific Viscosity Standards



ISO 9001 Certified

Scanning Brookfield / Gelation Index Reference Oils

Product Name	Nominal Gelation Index	Nominal Gelation Index Temperature	Applicable ASTM Test Methods
GIR-150	20	-14°C	D5133 D7110

TEOST® Reference Oils

TEOST® 33C		
Product Name	Nominal Deposit Range (Rod + Filter weight)	Applicable ASTM Test Methods
CG-1	25 mg	D6335
T33C-1	45 mg	
T33C-2	60 mg	
TEOST MHT®		
Product Name	Nominal Deposit Range (Rod + Filter weight)	Applicable ASTM Test Methods
LDF	15 mg	D7097
MDF	40 mg	
HDF	77 mg	
SavanTech® Certified Data Includes: 1) Mass of Total Deposits and Tolerance for each oil.		

Fuel Injector Shear Stability Test Reference Oil

Product Name	Nominal Viscosity @ 100°C (mm ² /s) (cSt)		Applicable ASTM Test Methods
	Fresh	After 20 Passes	
FISST-1	13.00	9.77	D5275

TEOST® Calibration Oil

Product Name	Calibration Uses
TPC-1	T/C Depth Pump Speed Power Settings

TBS Viscometer Specialty Oils

Product Name	Purpose	Applicable ASTM Test Methods
BIF-03	Break-in Fluid	D4683 D6616
Idling Oil	Flush, Idle, Store	

TFOUT Reference Oils

Product Name	Nominal Break-Times (minutes)	Applicable ASTM Test Method
TFL-60	65	D4742
TFH-220	227	

TFOUT Catalyst Packages

Product Name	Applicable Test Sequence	Catalyst Designation	Applicable ASTM Test Methods
TFOUT IIID Catalyst	IIID	'A'	D4742
TFOUT IIIE Catalyst	IIIE	'B'	D7098
Notes: 1) Available in Kit and Tube (3 kits) quantities. 2) Kits contain catalyst material for approximately 13 tests.			

TEOST® Catalyst Package

Product Name	Applicable Test Method
TEOST MHT Catalyst	D7097
Notes: 1) Available in 5 gram bottles. 2) Approximately 120 tests per bottle.	