

CCS Standards Viscosity Values

CCS Low Temperature Viscosity Table

Low temperature CCS viscosity standards are used for measuring dynamic viscosity (in mPa·s or cP) at temperature from −5 °C to −40 °C. They are used to calibrate the CANNON Cold-Cranking Simulator (CCS) for oil testing per ASTM D5293, Apparent Viscosity of Engine Oils and Base Stocks Between −5 °C and −35 °C Using Cold-Cranking Simulator and SAE specification J300. Lot specific viscosity data in mPa·s (cP) is provided with each standard.

Nominal viscosity values (in mPa·s or cP) of low temperature viscosity CCS standards for ASTM D5293 and SAE specification J300

Catalog Number	Viscosity Standard	−40 ° C	−35 ° C	−30 ° C	−25 ° C	−20 ° C	−18 ° C	−15 ° C	−10 ° C	−5 ° C
9727-N02	CL080	1430	850	—	—	—	—	—	—	—
9727-N04	CL090	1930	1150	—	—	—	—	—	—	—
9727-N06	CL100 [CL10]	2450	1450	875	—	—	—	—	—	—
9727-N07	CL110	2880	1680	1030	—	—	—	—	—	—
9727-N08	CL120 [CL12]	3580	2050	1230	775	—	—	—	—	—
9727-N09	CL130	4580	2600	1550	975	—	—	—	—	—
9727-N10	CL140 [CL14]	6380	3550	2080	1300	775	675	—	—	—
9727-N11	CL150	7830	4310	2500	1530	950	—	—	—	—
9727-N12	CL160	10300	5580	3200	1900	1200	1000	—	—	—
9727-N13	CL170	12000	6430	3650	2180	1330	—	850	—	—
9727-N14	CL190 [CL19]	15900	8380	4680	2750	1680	1400	1080	—	—
9727-N16	CL200	21100	10900	6030	3500	2130	—	1330	875	—
9727-N18	CL220 [CL22]	—	13600	7380	4230	2550	2050	1600	1030	—
9727-N20	CL240	—	16900	9100	5180	3050	—	1900	1230	—
9727-N22	CL250 [CL25]	—	20000	10700	6000	3500	2880	2180	1380	—
9727-N24	CL260	—	—	13100	7300	4300	—	2650	1680	—
9727-N26	CL280 [CL28]	—	—	16500	9080	5280	4300	3200	2030	—
9727-N28	CL300	—	—	20700	11300	6480	—	3880	2430	—
9727-N30	CL320 [CL32]	—	—	26500	14300	8150	6600	4850	3000	—
9727-N31	CL340	—	—	—	17000	9580	—	5650	3480	—
9727-N32	CL380 [CL38]	—	—	—	20800	11600	9330	6800	4180	2650
9727-N33	CL420	—	—	—	—	14000	—	8180	4950	—
9727-N34	CL480 [CL48]	—	—	—	—	17400	13700	10100	6000	3780



Catalog Number	Viscosity Standard	−40 ° C	−35 ° C	−30 ° C	−25 ° C	−20 ° C	−18 ° C	−15 ° C	−10 ° C	−5 ° C
9727-N35	CL530	—	—	—	—	22000	—	12500	7500	—
9727-N36	CL600 [CL60]	—	—	—	—	—	20300	15700	9300	5700
9727-N37	CL680	—	—	—	—	—	—	19400	11300	—
9727-N38	CL740 [CL74]	—	—	—	—	—	—	—	12600	7650
9727-N43	Set of 18	Set of CCS-2050/2100 low temp standards (includes CL080, CL090, CL100, CL110, CL120, CL130, CL140, CL150, CL160, CL190, CL220, CL250(2), CL280, CL320, CL380, CL480 and CL600)								

This table presents nominal data. Actual values, provided with each standard, may vary slightly from lot to lot and formulations are subject to change. If your application requires close conformity with published nominal values, please contact technical service to obtain the actual viscosity values associated with the current formulation.