

Province: Nova Scotia	Materials: Performance Graded Asphalt Cement
Date Last Reviewed: July 15, 2025	Web Address: https://novascotia.ca/tran/publications/asphalt/Standard-Specification-Manual-2025.pdf
Bituminous specialist: Adam Marlin	Contact Info: Adam.Marlin@novascotia.ca

Asphalt Binder		
	Description	Performance grade asphalt binder shall conform to the requirements of AASHTO M332.
	Exclusions	

Nova Scotia		Table 1: Requirements for Performance-Graded Asphalt Binders (Note 1)						
Property		Test Method: AASHTO (T), ASTM (D)	Requirements by Performance Class					
			PG 52n-YY	PG 58n-28	PG 58n-YY	PG 64n-28	PG 70n-28	
ORIGINAL								
Flash Point, °C		D92	230 min.					
Rotational Viscosity, Pa·s	135 °C	T316	3 max.					
Dynamic Shear, kPa (G*/sin δ, 10 rad./sec)	At Grade Temp.	T315	1.00 min.					
RTFO RESIDUE		T240						
Mass Change, %		T240	1.00 max.					
MSCR, Jnr _{3.2} , kPa ⁻¹	n = S	At Grade Temp.	T350	≤ 4.50				
	n = H			≤ 2.00				
	n = V			≤ 1.00				
	n = E			≤ 0.50				
MSCR, Jnr _{diff} , %				75 max.				
RTFO + PAV20 RESIDUE		R28	100 °C					
Dynamic Shear, kPa (G*·sin δ, 10 rad/sec)	At Inter. Temp. (Note 2)	T315	6000 max. ^{Note 3}					
Phase angle, δ			42° min. ^{Note 3}					
Creep Stiffness, MPa	At Test Temp.	T313	°C	-18 °C	°C	-18 °C	-18 °C	
			300 max.					
M-Value			0.300 min.					
NOTES		1. Requirements in addition to M332 are shown in red. 2. Intermediate Temp. = [(High PG + Low PG)/2] + 4 3. If G*·sin δ is below 5000 kPa, the phase angle limit is not required						

Disclaimer: "To ensure the most accurate and current information, the specific agency should be contacted."

