

<b>Province:</b> Québec	<b>Materials:</b> Performance Graded Asphalt Cement
<b>Date Last Reviewed:</b> July 16, 2025	<b>Web Address:</b> <a href="http://www.transports.gouv.qc.ca">http://www.transports.gouv.qc.ca</a>
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Asphalt Binder		
MTQ Spec. 4101	Description	Performance grade asphalt binder shall conform to the requirements of MTQ 4101 (based on AASHTO M332).
	Exclusions	When Warm Mix and/or Anti-stripping additives are used, Binder is to be tested WITH additives present. When required, Method LC 25-009 is used to confirm anti-stripping quality of the binder and the suffix "HRD" is appended to the class.

Québec		Table 1: Requirements for Performance-Graded Asphalt Binders (Note 6)							
Property		Test Method: AASHTO (T), ASTM (D)	Requirements by Performance Class						
			PG 52n-34	PG 52n-40	PG 58n-28	PG 58n-34	PG 64n-28	PG 64n-34	
<b>ORIGINAL</b>									
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.						
Storage Stability, °C		LC 25-003	2 max.						
Solubility, %		D2042	≤ 99.0						
Ash Content, %		D8078	0.50 max.						
Residual coverage of agg., %		LC 25-009	95 min. Note 1						
<b>RTFO RESIDUE</b>		T240							
Mass Change, %		T240	1.00 max.			0.80 max.	1.00 max.		
MSCR, Jnr <sub>3.2</sub> , kPa <sup>-1</sup>	n = S	At Grade Temp.	T350	≤ 4.50					
	n = H			≤ 2.00					
	n = V			≤ 1.00					
	n = E			≤ 0.50					
	n = U			≤ 0.15					
MSCR, Jnr <sub>diff</sub> , % Note 2				75 max.					
MSCR, R <sub>3.2</sub> Note 3				≥ 29.371Jnr <sub>3.2</sub> <sup>-0.263</sup>					

TABLE 1 CONTINUED ON PAGE 2

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



Property		Test Method: AASHTO (T), ASTM (D) or other	Requirements by Performance Class					
			PG 52n-34	PG 52n-40	PG 58n-28	PG 58n-34	PG 64n-28	PG 64n-34
<b>RTFO + PAV20 RESIDUE</b>		R28	100 °C <sup>Note 4</sup>	100 °C <sup>Note 4</sup>	100 °C			
Creep Stiffness, MPa	At Test Temp.	T313	-24 °C	-30 °C	-18 °C	-24 °C	-18 °C	-24 °C
M-Value			300 max.					
Critical Low Temperature, T <sub>b</sub>			0.300 min.					
			≤ -34 °C	≤ -40 °C	≤ -28 °C	≤ -34 °C	≤ -28 °C	≤ -34 °C
<b>RTFO + PAV40 RESIDUE</b>		R28 <sup>Note 5</sup>	100° C					
Delta Tc (ΔTc)			-	Report	-	Report	-	
<b>NOTES</b>		<ol style="list-style-type: none"> <li>For HRD binders only. Tested with reference aggregate.</li> <li>This requirement is not applicable for n=E and n=U grades.</li> <li>This requirement is not applicable for n=5 grades. 55% min for Jnr<sub>3,2</sub> &lt; 0.10.</li> <li>For PG 52S-L and PG 52H-L, PAV at 90 °C.</li> <li>40h PAV is achieved by applying 2 cycles of 20h PAV as per AASHTO R28. The second cycle must be started within 30 minutes of the end of the first cycle.</li> <li>Requirements in addition to M332 are shown in red.</li> </ol>						

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