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# **CRS-TR**

## ***Tire Rubber Modified Cationic Rapid Set Specification***

The following specification is designed for a Tire Rubber Modified Cationic Rapid Set Emulsion, manufactured in a fixed asphalt oil terminal. This emulsion shall consist of asphalt cement to which has been modified with a minimum of 8% whole tire rubber. The finish asphalt tire rubber composition shall be smooth and homogenous and meet Solubility specifications.

*This can be determined by testing the residue of the CRS-TR after distillation.*

<b><i>Test Properties</i></b>	<b><i>Specification</i></b>		
	<b><i>Minimum</i></b>	<b><i>Maximum</i></b>	<b><i>Test Method</i></b>
<b><i>Whole Ground Tire Rubber Content, %</i></b>	<b><i>5.0</i></b>		
<b><i>Viscosity Saybolt Furol @ 50 °C (122 °F), sFs</i></b>	<b><i>150</i></b>	<b><i>550</i></b>	<b><i>ASTM D 7496</i></b>
<b><i>Storage Stability Test, 24hr, %</i></b>		<b><i>1.0</i></b>	<b><i>ASTM D 6930</i></b>
<b><i>Demulsibility, 35ml, 0.8% dioctyl sodium sulfosuccinate, %</i></b>	<b><i>60</i></b>		<b><i>ASTM D 6936</i></b>
<b><i>Particle Charge Test</i></b>	<b><i>Positive</i></b>		<b><i>ASTM D 244</i></b>
<b><i>Sieve Test, %</i></b>		<b><i>0.10</i></b>	<b><i>ASTM D 6933</i></b>
<b><i>Distillation:</i></b>			<b><i>ASTM D 6997</i></b>
<b><i>Oil Distillate, by volume of emulsion, %</i></b>		<b><i>3.0</i></b>	
<b><i>Residue, %</i></b>	<b><i>65</i></b>		
<b><i>Tests on Residue from Distillation</i></b>			
<b><i>Penetration, 25 °C (77 °F), 100g, 5 secs, dmm</i></b>	<b><i>90</i></b>	<b><i>140</i></b>	<b><i>ASTM D 5</i></b>
<b><i>Ductility @ 25 °C (77 °F), 5cm/min, cm</i></b>	<b><i>60</i></b>		<b><i>ASTM D 113</i></b>
<b><i>Solubility in TCE, wt%</i></b>	<b><i>98.0</i></b>		<b><i>ASTM D 2042</i></b>