



ZÜMRÜT INTERNATIONAL KİMYA SAN. VE TİC.LTD

Bitumen Penetration Grade 40/50 Specifications

Bitumen 40/50	Test method	Unit	Specification
<i>Specific gravity @ 25°C</i>	<i>ASTM D70</i>	<i>Kg/cm³</i>	<i>1.01/1.06</i>
<i>Penetration @ 25°C</i>	<i>ASTM D5</i>	<i>mm/10</i>	<i>40/50</i>
<i>Softening point °C</i>	<i>ASTM D36</i>	<i>°C</i>	<i>52/60</i>
<i>Ductility @25 °C</i>	<i>ASTM D113</i>	<i>cm</i>	<i>100 min</i>
<i>Loss on heating(wt) %</i>	<i>ASTM D6</i>	<i>wt %</i>	<i>0.2 max</i>
<i>Drop in penetration after heating %</i>	<i>ASTM D5-D6</i>	<i>%</i>	<i>20 max</i>
<i>Flash point °C</i>	<i>ASTM D92</i>	<i>°C</i>	<i>250 min</i>
<i>Solubility in CS₂(wt) %</i>	<i>ASTM D4</i>	<i>wt %</i>	<i>99.5 min</i>
<i>Spot test</i>	<i>A.A.S.H.O.T102</i>		<i>Negative</i>

Advantages:

- **Durability** : The hardness and high viscosity of 40/50 grade bitumen make it highly durable and suitable for high-stress applications.
- **Weather Resistance** : Offers excellent resistance to temperature variations, making it suitable for both hot and cold climates.
- **Load Bearing** : Its high strength makes it ideal for areas with heavy traffic and load-bearing requirements.
- **Reduced Deformation** : Minimizes rutting and other deformations under high temperatures and heavy loads..



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