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Standard Viscosity-Temperature Chart for Asphalts¹

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1. Scope

1.1 The viscosity-temperature chart covered by this standard is a convenient means of plotting data for estimating the viscosity of asphalts at any temperature within a limited range. Conversely, the chart may be used to ascertain the temperature at which a desired viscosity is attained.

1.2 The chart is suitable for original asphalt cements and for asphalts recovered from laboratory aging tests or extracted from pavements.

1.3 The chart is based on a viscosity-temperature relationship that can be plotted using any appropriate set of units. For convenience, charts based on both conventional and SI units are provided.

1.4 The range of the chart is sufficient for roofing asphalts.

1.45 The range of the chart is sufficient for liquid asphalts (bitumens) whose viscosity exceeds 0.1 poise (10 centipoise).

2. Referenced Documents

2.1 ASTM Standards:

D 341 Viscosity-Temperature Charts for Liquid Petroleum Products²

¹ This chart is under the jurisdiction of ASTM Committee D-4 D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.44 on Rheological Tests.

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