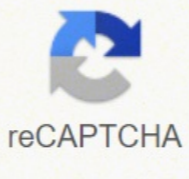


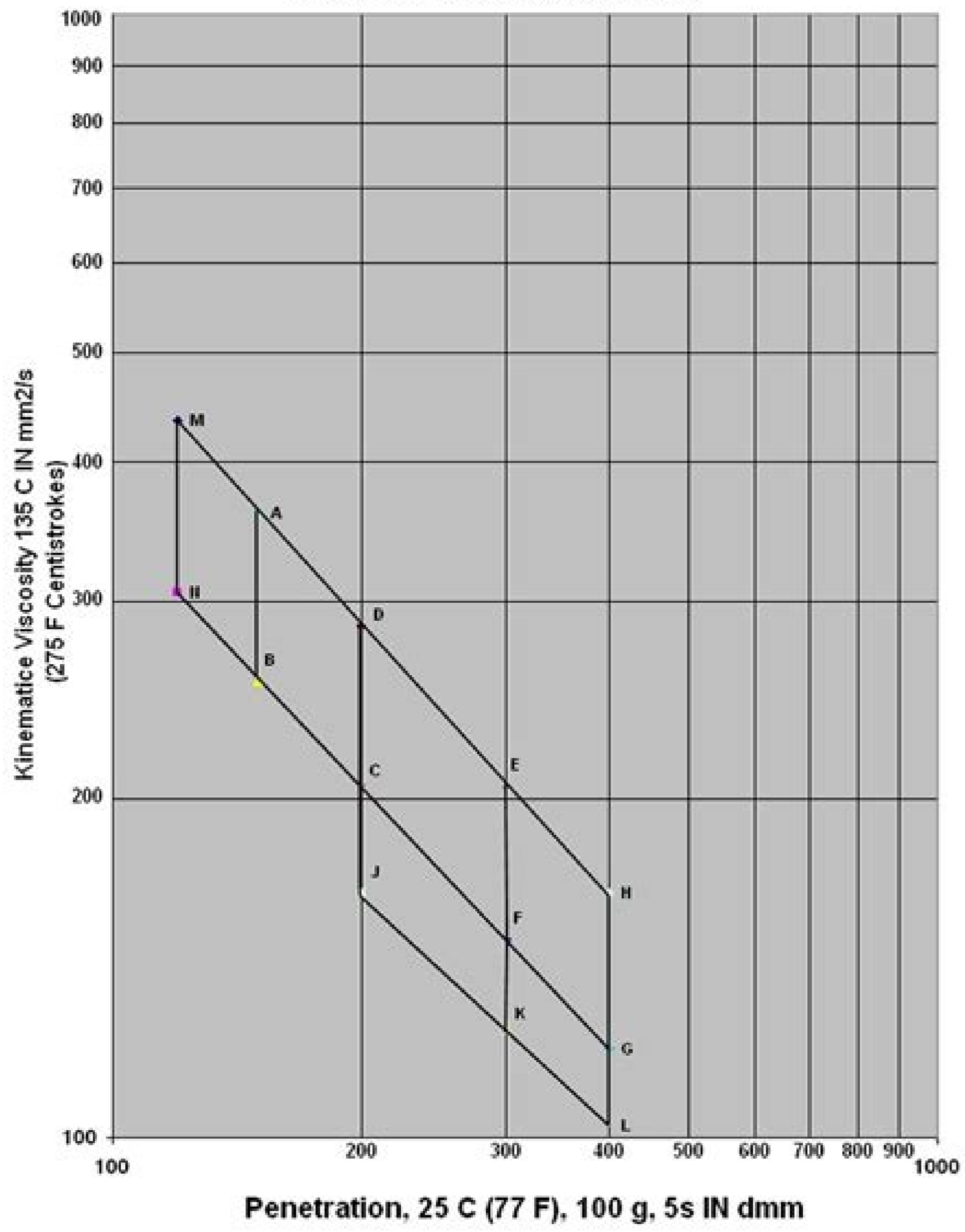


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Specifications For Asphalt Cement Kinematic Viscosity VS. Penetration For Six Specified Grades



Use of Mineralogical Phase Characterization to Assess the Thermal Stability of Asphalt Emulsions

Abstract: This study investigates the thermal stability of asphalt emulsions by analyzing the mineralogical phase composition of the dispersed phase. The results show that the presence of certain mineral phases, such as silicates and clays, significantly influences the stability of the emulsion under high-temperature conditions. The study also examines the effect of different emulsifier types and concentrations on the thermal stability of the emulsion.

Overview of Enhancements to Road Surfacing Seal Design Methodologies through Seal System and Materials Modeling

Abstract: This paper provides an overview of recent advancements in road surfacing seal design, focusing on the integration of seal system and materials modeling. The study highlights how these modeling techniques can optimize seal performance, improve durability, and reduce environmental impact. Key findings include the importance of material selection, system configuration, and the use of predictive modeling to assess seal behavior under various traffic and environmental conditions.

TABLE 10
Recommended Types and Grades of Bitumen for Bituminous Surfaces

Surface	Grade or designation					
	RC (single rolling)	MC (medium rolling)	SC (slow rolling)	AC (asphalt emulsion with penetration of)	AE (asphalt emulsion)	BT (road test)
Deep penetration	.....	MC 10-70	SC 10-70	.....	.....	BT 1, BT 2
Plain coat	MC 10	MC 10	SC 10	.....	.....	BT 2
Tack coat	MC 10	.....	.....	.....	BS-1, BS-2	.....
Surface treatment and seal coats	.....	.....	.....	.....	.....	.....
Course seal coat	MC 150	MC 200-400	.....	.....	BS-1	.....
Clear coarse aggregate	MC 150	MC 200-400	.....	120-300	.....	.....
Graded gravel aggregate	.....	MC 200-400	.....	.....	.....	.....
Mixed in place coarse mix (dry-graded aggregate)	.....	.....	.....	.....	.....	.....
Seal	MC 250	MC 250	.....	.....	.....	.....
Maximum diameter 1.5 in., high percentage polymer	MC 250	MC 250-500	.....	.....	BS-1	.....

Estimated Valuation of the Cost of Road Construction with the Use of Composite Cationic Bituminous Structures

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Annotation. The need for formation of prices for road construction works producing, by using composite of cationic bituminous structures, is dictated by absence of this type of work in estimate-normative base, due to the fact that this type of materials had never been used before. Estimated specifications could be used either for determination of work cost or for substantiation of efficiency of using new type of materials. This paper provides basic concepts, related to formation of estimate-normative base for determination of construction and installation works cost, particularly road construction works, also it shows formation of coating installation prices by using composite of cationic bituminous emulsions.

1 Introduction

Modern system of estimated specification is the foundation of definition of construction and installation works cost, particularly road construction works cost. Current system can't cover the whole spectrum of modern constructive materials, particularly new materials that had never been used before in constructing or in other definite type of works.

The development of estimated specification for road constructing work production with using composite cationic bituminous structures is determined by advantages of this material over traditional technologies of hot and cold road asphalt paving:

1. There is no need in adherence to temperature conditions, due to the fact that this method can be used either in warm or in cold weather conditions. The repairing of road cover can be produced in high humidity conditions at positive ambient temperatures [1, 9].
2. You can exploit roads 2 hours after finishing repairing works, which is especially actual on increased workload roads [2, 6, 11].
3. The value of bitumen using is highly reduced compared to hot and cold asphalt-concrete mixtures structure [1, 9].
4. The use of previously recorded cover becomes possible, which significantly reduces prime cost and increases ecological effect, reduces the measure of road repairing construction's waste [2, 6, 11].

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