

PAVING GRADE ASPHALT, AC-5

Description:

AC-5 is an asphalt cement grade which is specified by the original viscosity @60°C (140°F) Poise for use in pavement construction.

This asphalt is generally used in Alaska. This asphalt is usually unmodified.

The AC-5 that U.S. Oil produces does meet table I or II of the American Association of State Highway and Transportation Officials (AASHTO) for viscosity grade asphalts.

Storage /Handling:

Personnel must be trained in the proper handling of AC-5 and provided the information contained in the Material Safety Data Sheet (MSDS).

The preferred storage temperatures for AC-5 is 135°C to 163°C (275°F to 325°F). Unnecessarily high temperatures result in increased hardening and heating costs. These temperatures should be verified with your asphalt supplier.

This asphalt must be stored in insulated tanks, which have hot oil, electric or high-pressure steam heating systems. We recommend that inspection of asphalt storage tanks be done on a regular basis to prevent potential performance problems.

Because of the high temperatures of paving asphalts, extreme care must be exercised in handling them to prevent severe burns. Proper clothing must be worn with face shields, hard hats, long sleeve shirts, pants, boots and rubber-faced insulated gloves being required for protection.

When loading trucks and trailers or transferring paving asphalts into empty tanks care must be taken to prevent boiling-over due to the presence of water. If trucks or trailers have previously hauled a water-based product such as emulsified asphalt, they must be inspected for moisture and may require drying out before loading. Also, hoses and fittings must be inspected regularly for defects.

Usage:

AC-5 is primarily used in paving for both new construction and pavement rehabilitation and in both dense-graded and open graded Hot Mix Asphalt (HMA). This product could also be used for sealing of edges of pavements and for crack sealing. Other uses include spray applications for bridge deck and pavement protective membranes with fabrics.

Mixing:

The use of proper mixing temperatures for an AC asphalt like AC-5 is not only important to achieving adequate asphalt coating and mix compaction, but also to the asphalt hardening and pavement properties. Therefore, it is important to consider the mixing temperatures recommended in the mix design or by the asphalt supplier.

Additional Information:

For additional information on AC-5, contact the Asphalt Division of U.S. Oil & Refining Co., 3001 Marshall Avenue, Tacoma, Washington, 98421, Telephone: 253-383-1651 and Fax: 253-572-1717

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