
PAVING GRADE ASPHALT, ARCTIC AC-5

Description:

This modified asphalt, Arctic AC-5 is developed around the McLoed paper on thermocracking. This modified asphalt is used in cold climates such as Alaska. The specifications for this product may vary with specific agencies so they must be validated with the asphalt supplier's specifications.

Storage /Handling:

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

The WSDOT specifications state Arctic AC-5 asphalt at hot mix plants may be heated to a maximum temperature of 177°C (350°F). However, the preferred storage temperatures for Arctic 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:

Arctic AC-5 is a paving asphalt cement primarily used for production of Hot Mix Asphalt (HMA). This product could also be used for sealing the edges of pavement and for crack sealing. This product is generally used in Alaska.

Mixing:

The use of proper mixing temperatures for an AC asphalt like Arctic 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 Arctic 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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