

PAVING GRADE ASPHALT, PG58-34

Description:

PG58-34 is a Performance Grade (PG) of asphalt cement based on two factors: traffic and pavement temperature. Adjustments are made to the PG grade of asphalt cement based on traffic conditions and traffic volumes which is intended to enhance the design life of the pavement. The PG grading system is defined by two numbers, which represent pavement temperatures. The first number PG 58-XX represents the high pavement temperature in degrees Celsius, while the second number PGXX-34 represents the low pavement temperature. All adjustments to the PG grading system are made in six (6) degree increments. The high temperature relates to the effects of rutting and the low temperature relates to cold temperature and fatigue cracking.

This material is generally used in the upper half of Eastern Washington and on higher elevation roadways.

Storage /Handling:

Personnel must be trained in the proper handling of PG58-34 and provided the information contained in the Material Safety Data Sheet (MSDS).

The WSDOT specifications state PG58-34 asphalt at hot mix plants may be heated to a maximum temperature of 177°C (350°F). However, the preferred storage temperatures for PG58-34 is 141°C to 163°C (285°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, pant, 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:

PG58-34 is generally used in the upper half of eastern Washington and on higher elevation roadways. PG58-34 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 new to old paving and crack sealing. PG58-34 is used in paving for both new construction and pavement rehabilitation in both dense-graded and open-graded HMA.

Mixing:

The use of proper mixing temperatures for a PG asphalt like PG58-34 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 PG58-34, 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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