



Technical Data Sheet

Unmodified PG Asphalt Binders

Typical Uses:

Associated Asphalt unmodified Performance Graded Asphalt Binders can be used for hot mix asphalt production, asphalt emulsion production as well as other industrial purposes. Performance grading of asphalt binders is based on the high and low pavement temperatures, in degrees Celsius, and is typically graded in six degree increments. Our unmodified Performance Graded Asphalt Binders are produced to meet AASHTO M-320, M-332 and the state specifications in which we sell.

Storage and Handling:

Agitated storage tanks are not required.

Excess heating and extended storage time can cause significant property changes to the asphalts properties. Samples may need to be taken to verify DSR or viscosities. If any changes have occurred, it would be recommended to have full compliance testing performed to ensure quality prior to use. Recommended storage temperatures are listed below.

Guideline for Field Mixing and Compaction Temperature:

Mixing and compaction temperatures are dependent on the binder grade supply, mix design, lift thickness, atmospheric conditions, use of warm mix additives, paving equipment being used, and the desired compaction temperature at the paving site. It is recommended to determine compaction temperature by placing test sections in the roadway monitoring temperature and density. The placement procedures, lift thicknesses, and rolling patterns should be checked and validated first. Then, if density/breakdown target is not achieved, compaction temperature could be raised. Our recommended HMA plant mixing temperatures are listed below.

Test/Specifications:

Associated Asphalt certifies our Performance Graded Asphalt Binders to meet AASHTO M-320 and M-332 specifications. Our asphalt binders can also be certified to meet ASTM specifications for FAA, Roofing and other industrial uses. Please contact us for a complete certificate of analysis.

Caution:

Read SDS prior to use. Wear appropriate PPE and follow all safe handling guidelines. Use with adequate ventilation and avoid breathing vapor or fumes. Avoid contact with skin as hot product can cause thermal burns. In case of contact with skin or eyes, flush with cool water for at least 15 minutes and get medical attention. Do not remove product from skin.

Judgments as to the suitability of information herein for the purchaser's purposes are necessarily the purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, Associated Asphalt Partners, LLC and/or its subsidiaries extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purpose or for consequence of its use.

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Recommended Asphalt Binder Temperatures

| Binder Grade | Asphalt Tank Temperature (°F) | HMA Plant Mixing Temperature (°F) | |
|--------------|-------------------------------|-----------------------------------|----------|
| | Range | Range | Midpoint |
| PG 52-28 | 260 - 295 | 240 - 300 | 270 |
| PG 52-34 | 260 - 295 | 240 - 300 | 270 |
| PG 52-40 | 260 - 295 | 240 - 300 | 270 |
| PG 52-46 | 260 - 295 | 240 - 300 | 270 |
| PG 58-22 | 280 - 305 | 260 - 310 | 285 |
| PG 58-28 | 280 - 305 | 260 - 310 | 285 |
| PG 58-34 | 280 - 305 | 260 - 310 | 285 |
| PG 64-22 | 285 - 315 | 265 - 320 | 292 |
| PG 64-28 | 285 - 315 | 265 - 320 | 292 |
| PG 64-34 | 285 - 315 | 265 - 320 | 292 |
| PG 64 HRAP | 285 - 315 | 265 - 320 | 292 |
| PG 67-22 | 295 - 320 | 275 - 325 | 300 |
| PG 70-22 | 290 - 320 | 270 - 320 | 295 |

The above chart establishing asphalt storage temperatures and plant mixing-production temperatures is meant as a guide only. The temperatures listed are appropriate for dense-graded HMA mixes and may not be applicable for open-graded and gap-graded HMA mixes. The actual temperature will be determined by the test strip. This temperature should be determined in consultation with the asphalt supplier, since factors such as crude base; refining process, blending, and additives may have an effect on the binder properties relating to constructability. Please contact your area sales or technical representative for additional information.