Basekim
Chemical Production Co.Ltd.

TECHNICAL DATA SHEET (TDS)

Bitumen PG 64-22

1. Product Description

Bitumen PG 64-22 is a performance-graded asphalt binder manufactured to meet Superpave requirements for pavements exposed to high summer temperatures and moderate winter cold. The **PG 64-22** grade indicates reliable resistance to rutting at pavement temperatures up to **+64°C**, while maintaining sufficient flexibility to resist cracking at temperatures as low as **–22°C**. This balance makes PG 64-22 one of the most widely used binders for highways and heavy-traffic road networks.

2. Applications

PG 64-22 is suitable for:

- Highways and expressways
- Urban and municipal roads
- Industrial and logistics roads
- Medium to heavy traffic pavements
- Asphalt overlays and rehabilitation projects
- Regions with hot summers and moderate winters

3. Key Features & Benefits

- Strong rutting resistance in high temperatures
- Good low-temperature flexibility
- Excellent adhesion to aggregates
- Improved fatigue resistance
- Stable performance under repeated traffic loading
- Reduced cracking and deformation
- Long service life and lower maintenance costs

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4. Technical Specifications (Typical Values)

According to AASHTO M320 (Superpave)

Property	Test Method	PG 64-22 Requirement
Performance Grade	AASHTO M320	PG 64-22
Flash Point	AASHTO T48	≥ 230 °C
Viscosity @ 135 °C	AASHTO T316	≤ 3.0 Pa·s
DSR (Original), G*/sin δ @ 64 °C	AASHTO T315	≥ 1.00 kPa
RTFO Mass Loss	AASHTO T240	≤ 1.00 %
DSR (RTFO), G*/sin δ @ 64 °C	AASHTO T315	≥ 2.20 kPa
BBR Stiffness @ –12 °C	AASHTO T313	≤ 300 MPa
BBR m-value @ –12 °C	AASHTO T313	≥ 0.300
Direct Tension Test @ –22 °C	AASHTO T314	≥ 1.5 % strain
Rotational Viscosity @ 165 °C	AASHTO T316	≤ 2.0 Pa·s

5. Storage & Handling

- Store in clean, heated tanks at **140–165 °C**
- Do not exceed **175 °C** to avoid binder degradation
- Use insulated pipelines and pumps
- Maintain gentle circulation to ensure uniformity
- Keep water away from hot bitumen

6. Safety & Precautions

- Wear protective gloves, goggles, and clothing
- Avoid skin contact with hot binder
- Ensure proper ventilation during heating
- Never allow water into hot storage tanks
- Follow local transport and safety regulations

(Refer to MSDS for detailed safety data.)

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7. Packaging Options

- Bulk supply in heated tankers
- Steel drums (180–200 kg)
- Bitutainers / Flexi-bags
- Custom packaging available

8. Shelf Life

Up to **12 months** when stored under recommended conditions.

9. Standards & Compliance

- AASHTO M320 (Superpave PG Binder)
- ASTM performance-graded asphalt standards
- Project-specific specifications upon request

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