

## PENETRATION GRADE BITUMEN 200-300

### DESCRIPTION

Bitumen 200-300 is a standard penetration grade as per ASTM D946M, known for its exceptionally soft consistency and very high penetration value. Although not commonly used in conventional paving works, its high flexibility and adhesive properties make it ideal for specialized applications such as cold-mix asphalt, surface treatments, waterproofing systems, and various industrial uses where a highly pliable binder is required.

Penetration Grade Bitumen is produced from Vacuum Residue (VR), which undergoes air blowing in a Oxidation Blowing Unit. This fully automated, continuous process ensures consistent and homogeneous product quality, meeting stringent specifications and international standards.

### APPLICATION

Bitumen 200-300 is primarily utilized in specialized applications that require exceptional softness and flexibility, making it ideal for use in colder climates and specific industrial processes. This highly penetrable grade is often employed for dust control on unpaved roads and in areas where effective dust suppression is critical. Additionally, it serves as a key component in the production of asphalt emulsions, which are widely used in road construction and maintenance projects, particularly in conditions where lower processing temperatures are necessary.

### Guaranty and safety of bitumen penetration 200/300

Iraq Altaqa company guaranty the quality of bitumen penetration grade 200-300 with the arrangement of the international inspector to check quality and quantity of the bitumen penetration grade 200-300 during the loading to the vessel and controlling the production by QC by batch test report before shipping. Altaqa guarantees the quality to meet with ASTM.

### SPECIFICATION

| Test                              | Specification | Unit               | Test Method  |
|-----------------------------------|---------------|--------------------|--------------|
| Penetration @ 25°C                | 200-300       | mm/10              | ASTM D 5     |
| Softening Point (R & B)           | 32 min        | °C                 | ASTM D 36    |
| Ductility @ 25°C                  | 100 min       | cm                 | ASTM D 113   |
| Solubility in TCE                 | 99 min        | %                  | ASTM D 2042  |
| Flash point °C                    | 175 min       | °C                 | ASTM D 92    |
| Specific gravity @ 25°C           | 1.01-1.06     | kg/cm <sup>3</sup> | ASTM D70     |
| Loss on heating                   | 1 max         | wt %               | ASTM D6      |
| Drop in penetration after heating | 20 max        | %                  | ASTM D 5     |
| SPOT TEST                         | Negative      | -                  | AASHTO T 102 |

### PACKING

Our bitumen is available in a range of packaging options, including jumbo bags (1 MT), flexitanks (20 MT), and steel drums in 150 kg, 180 kg, and 220 kg capacities. All packaging is weatherproof and engineered for safe, efficient handling and transportation in diverse operating environments.

### RECOMMENDED WORKING TEMPERATURES:

→ Storing temperature (°C): 120-150.

→ Mixing temperature (°C): 140-160.

→ Maximum Heating Temperature (°C): ≤180.