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## Softening Point Test For Bitumen Pdf Download |TOP|

Bitumen is the generic name of a group of viscous, black or nearly black, tar-like or clay-like fluids of hydrogen and carbon, especially hydrogen, carbon, oxygen, nitrogen and sulphur. They are found in large volumes in nature, especially in the form of sandstone (sand + bitumen) and shale (clay + bitumen). They are also a mixture of heavy petroleum distillates in veins, strata and rock masses, which usually also contain water and lighter petroleum distillates (« bitumen oils »). Bitumen comes in various forms, with different viscosities and surface properties. They are solid at 0 and 10°C, liquid between -80 and 10°C, viscous at 150-160°C and solid again above 165°C. In nature, the bitumen-like structures are, apart from the inorganic solid fraction, also composed of organic molecules. The nature and properties of bitumen depend to a large degree on the nature and amount of organic impurities. The most important are the asphaltenes and paraffins. Softening Point Test For Bitumen Pdf Download The viscosity at various temperatures depends on the presence and amount of these impurities. The solids content in the de-asphalted bitumen oils can reach up to 30%. Each of these fractions has a characteristic specific chemical composition and physical properties. The refiner can decide to use bitumen fractions with varying solids content at different process steps and to blend them before viscosity reduction. The structures of the bitumen fractions are shown in Figure 2. The mineral solid fraction consists of quartz (16%), mica (20%), kaolinite (2%), feldspar (6%), muscovite (1%), pyrite (0.7%), calcium salts (4%), sillimanite (8%), plagioclase (11%), kaolin (9%), montmorillonite (2%) and silica (5%). The organic impurities (asphaltenes, paraffins) and the resinous components consist of polycyclic aromatic hydrocarbons (PAHs) and aliphatic hydrocarbons. Asphaltenes are generally present in the bitumen oils that are generated from the oil sands. Normally, it can be assumed that one of the fractions from the tar sands is used for processing and the remaining two fractions are disposed of in some







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