



Minflo[®] Guar Gums for Mining applications

Minflo[®] is a series of special grades of Guar Gum for use in Mining operations. They act as a very effective flocculent for achieving liquid-solid separation by means of filtration, settling and clarification.

Minflo[®] adsorbs on the hydrated mineral particles through Hydrogen bonding. This leads to agglomeration through bridging. Thereby **Minflo[®]** promotes formation of large flocs, which aid in liquid-solid separation operations.

Minflo[®] promotes improved permeability of filter cakes, leading to increased filtration rates. Flocs formed by using **Minflo[®]** are incompressible and are easily penetrated by wash water.

The other distinct advantage obtained from using **Minflo[®]** is easy handling of the filter cake, which enables easy transportation on conveyor belts without dusting.

Minflo[®] is also very effective in mineral flotation operations. **Minflo[®]** acts as a talc depressant by its action of adsorbing on the hydrated surfaces of the unwanted talc or gangue, thereby preventing the other reagents from adsorbing on the gangue surfaces.

The primary application of **Minflo[®]** in the Mining Industry is improvement in various operations involved, by enhancing liquid-solid separations.

As the terms “filtration”, “settling” and “clarification” relate to the individual steps of an overall Mining Recovery or Waste-Water treatment operation (the terminology being governed by the particular intent of the user), we recommend that users carry out their own tests to determine the most effective usage levels and the suitable grade of **Minflo[®]** for their various operations.