



# Lucid Colloids Ltd.

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## Guarplo® Guar Gums for Explosives

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**Guarplo®** is a series of natural and modified polysaccharides (Galactomannan) specially developed for explosive applications.

**Guarplo®** is available in various grades to suit the precise needs of the explosive industry. It finds application in cartridge or dry explosives as a water barrier and in Slurry explosives as a suspending agent for the solid ingredients besides providing water resistance to the product in the borehole.

The fast cold water swelling properties of **Guarplo®** play a significant role in giving optimum effectiveness of the explosives while immersed in water since **Guarplo®** keeps water penetration to a minimum level.

Due to its water blocking action, **Guarplo®** also helps in keeping the cap-sensitive cartridge explosives sensitive over a longer duration when under water.

In slurry explosive applications, **Guarplo®** prevents segregation of various ingredients like sensitizers, energizers and oxidizers over long periods of storage before use, **Guarplo®** also permits the placement of the explosives in water filled boreholes due to its water blocking action.

**Guarplo®** therefore, gives more predictable and accurate results as it prevents the loss of explosive into porous rocks and inhibits the leaching of soluble salts which could not only lead to unpredictable results, but also give poor explosive performance and sometimes a complete failure to detonate.

Several grades of **Guarplo®** are available to suit most applications. We recommend that users carry out their own tests to determine the most effective usage levels and the suitable grade of **Guarplo®** for their various applications. Tailor made grades to suit specific needs are possible.