



# Lost Circulation Materials

## AUS-PLUG (LOST CIRCULATION POLYMER)

### Description

AUS-PLUG is a hydrophilic polymer in granular form that absorbs up to 500 times its original volume in water.

AUS-PLUG is ideal for sealing zones of lost circulation and can also be used to reduce rod vibration in holes where lost returns are a problem.

### Application

AUS-PLUG should be mixed with fresh water then pumped down the hole to the zone of lost circulation. The mixture will then swell and seal fissures, cracks and porous formations. Drilling can recommence after a waiting period of 30 minutes. In diamond drilling, to avoid long delays while waiting for AUS-PLUG to swell down-hole, the AUS-PLUG can be pre-wetted with water in a 20-40 litre container. Once the tube has been pulled, this solution can be poured directly down the rods. After pumping the tube down the rods drilling can recommence. This procedure can be repeated on successive

core runs. In circumstances where a low water level or total loss of water returns results in excessive vibration and torque, AUS-PLUG can be allowed to swell in water or mud for 15-20 minutes. The resulting swollen mixture can be periodically poured down the outside of the rods and acts as a cushion between the rod string and hole casing.

### Advantages

- Easy to place in hole.
- Rapid swelling, will swell up to 500 times original volume.

### Usage

0.5kg - 1.5kgs/100litre.

### Packaging

AUS-PLUG is packaged in 8kg plastic pails



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