

**The Mojo Dissolving Pump-out Plug – Large Bore is used to form a temporary barrier** in the tubing string in order to perform a variety of downhole operations. The Mojo Dissolvable Pump-Out Plug – Large Bore restricts fluid and pressure from below until expended with tubing pressure once the intended operation is complete. The fully dissolvable plug is expended from the housing via applied pressure where it dissolves in the wellbore fluids, conveniently eliminating potentially troublesome debris in your wellbore. **Also available in Ball Drop Configuration.**



### APPLICATION

- Temporary dissolving barrier in the tubing string

### BENEFITS

- Low cost
- Wide choice of shear-out pressures
- Provides a tubing plug without well intervention

### FEATURES

- Adjustable shear value
- Full bore after actuation
- Available in standard and premium threads and materials
- Plug coated to protect it from premature dissolution

### DESCRIPTION AND OPERATION

The **Mojo Dissolving Pump-out Plug – Large Bore** sub comes with a dissolvable pump-out plug which prevents the tubing from filling with fluid in addition to providing a pressure barrier as the equipment run in-hole. The shear settings are easily adjusted in the field. Once the equipment's required setting pressure is applied and held for the time required for the specific application, the tubing pressure is then increased to shear the screws retaining the plug. Once expended, the plug simply falls to the bottom of the well and dissolves in the well fluid, leaving the pump out plug housing with a fully open tubing ID.

The Mojo Dissolving Pump-out Plug – Large Bore sub is designed to accommodate a maximum of eight to twelve shear screws dependent on the assembly's size.

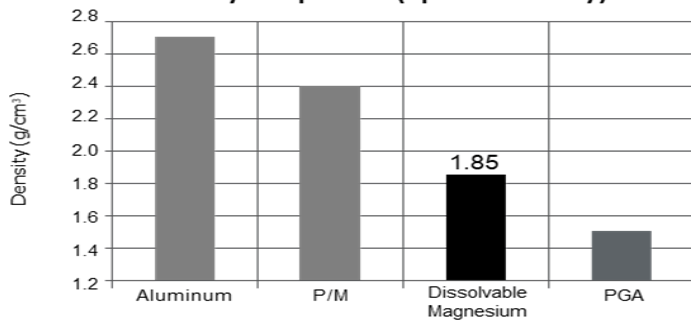
Tubing	Pump-out Plugs			
OD (in. [mm])	Sub Max. OD (in. [mm])	OD of Plug (in. [mm])	ID of Tool After Shear (in. [mm])	Setting Pressure (PSI/Screw+/15%)
3.500 [88.9]	4.500 [114.3]	3.400 [31.75]	3.460 [87.884]	375
4.500 [114.3]	5.563 [141.30]	3.940 [31.75]	4.000 [101.60]	451

### Magnesium Alloy Dissolution

The magnesium alloy has a corrosion rate of 1100 MCD (milligrams/sq cm/day) in 3% KCl solutions at 200F. This high strength magnesium alloy has good ductility. The magnesium alloy needs at least 10,000 ppm chloride ion to corrode actively. To protect the magnesium alloy plug from beginning the dissolution process or corrosion during installation, a specialized coating is applied to the plug.

### Magnesium Alloy

Materials density comparison (Specific Gravity)



Dissolvable Magnesium weight loss

