

## MKW X-2/X-2D (Xanthan Gum)

MKW X-2/X-2D is a technical grade, high molecular weight polysaccharide biopolymer designed specially to viscosify water base drilling, completion and workover fluids. It is soluble in all water systems from freshwater, seawater, salt and heavy brine systems.

### Typical Physical Properties

<b>Appearance</b>	White or light yellow free flowing powder					
<b>Particle Size (mesh)</b>	Client Requirement					
<b>Loss On Drying (%) &lt;</b>	13					
<b>Viscosity (1% KCL solution cps) &gt;</b>	1200					
<b>Shearing Ratio ≥</b>	6.5					
<b>PH</b>	5.0 - 8.0					
<b>Yield point ≥</b>	40					
<b>Density (kg/l) ≥</b>	0.3					
<b>Rheological Measurement (350 ml of salt saturated water):</b>						
<b>Rate</b>	<b>600rpm</b>	<b>300rpm</b>	<b>200rpm</b>	<b>100rpm</b>	<b>6rpm</b>	<b>3rpm</b>
<b>Standard</b>	≥90	≥66	≥54	≥42	≥18	≥15

### Application

Xanthan Gum is a low-solid viscosifier widely used in drilling, completion and workover fluids. It builds viscosity and gel structure in all water base systems. Drilling fluids containing Xanthan Gum maintain nearly constant viscosity from below freezing to 270°F static bottom hole temperature, in a pH range of 3 to 12, and the product is non-toxic and is readily biodegradable.

### Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

### Packaging and Storage

Packed in 25 kgs or 50 lbs paper sacks. Store in a dry location.

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and /or stacking.

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