

Potassium Chloride (DRY)

Potassium Chloride (KCl) powder is a high-purity, dry crystalline inorganic salt used to form clear brine used in workover and completion operations which require densities ranging from 8.4 to 9.7 lb/gal (1007 to 1162 kg/m3).

Typical Physical Properties

Physical appearance	White, free-flowing crystals
Specific gravity (powder only)	1.98
Purity	98%
Solubility @ 70°F (21°C)	32 g/100 mL water

Applications

Potassium Chloride powder is mixed with water to form clear-brine workover and completion fluids with densities ranging from 8.4 to 9.7 lb/gal (1007 to 1162 kg/m3).

Potassium Chloride brines are especially beneficial due to excellent shale stabilization in water-sensitive clay/shale formations and claycontaining sandstones. It is often used to enhance inhibition in other brine systems.

KCl solutions become saturated around 24% by weight or near 9.7 lb/gal (1162 kg/m3). Because the dissolution rate decreases near saturation, good agitation and heat can be required to attain 9.7 lb/gal (1162 kg/m3) with a crystallization temperature near 59°F (15°C).

Note: Use the Mixing Tables to obtain the desired density

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

Potassium Chloride (dry) is packaged in 50-lb (22.7-kg) and 100-lb (45.4-kg), multi-wall, waterproof sacks.

Store in a tightly closed, original container in a well-ventilated area.

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