

# POTASSIUM CHLORIDE - KCl

## SHALE STABILISERS

INSH 2000 – PRODUCT DATA SHEET

### Description

KCl, a soluble salt, is an extremely efficient shale stabiliser when drilling hydro sensitive clays and shales. Inhibition is provided through ion exchange; the potassium ion enters between the individual clay platelets in the shale so that they are held together, thus eliminating entry of water from the drilling fluid.

### Application

KCl can be added directly to a drilling fluid system to enhance its inhibitive quality, thus helping to stabilise water sensitive clay and shales.

### Advantages

- Inexpensive and readily available
- Compatible with most drilling fluid additives
- Stabilizes water sensitive clays and shales
- Prevents issues resulting in shale instability
- Fast dissolving

### Recommended Treatment

Normal use: 3.0% (30 kg) – 8.0 % (80 kg) by volume (per m<sup>3</sup>)

### Specifications

S.No.	Parameter	Specification
1	Physical State	Crystalline solid or powder, free from visible impurities
2	Moisture content at 110±2°C, percent by mass	2.0 (Maximum)
3	Matter insoluble in water (on dry basis), percent by mass	0.10 (Maximum)
4	Calcium Ca <sup>++</sup> on dry basis, ppm	200 (Maximum)
5	Purity as KCl on dry basis, percent by mass	96.0 (Minimum)

### Packaging

25 Kgs pre ply kraft paper bag. Customized packaging is available on request.