

*NISOC SPECIFICATION  
DRILLING FLUIDS PRODUCT DATA*

***STARCH (WHEAT)***

**Product Description:**

Starch with general formulation ,  $(C_6H_{10}O_5)_n$  is a poly saccharide and produced commercially from corn , wheat , potato and other sources. Pre - gelatinized wheat starch is a medium viscosity fluid loss reducing agent. It is soluble in water.

**Application:**

- Fluid loss control.
- Suspension agent.
- Viscosifier .

**Typical Physical Properties :**

| <i>Properties of 14 lb/bbl<br/>concentration<br/>wheat starch</i> |                        | <i>Result after rolling at<br/>200 °F for 4 hours with<br/>fresh water</i> | <i>Result after adding<br/>15% formation water<br/>and rolling at 200 °F<br/>for 4 hours</i> |
|---|------------------------|--|--|
| Mud weight  | PCF                    | 150  | 150  |
| Apparent Viscosity  | cPs                    | $75 \pm 5$   | $65 \pm 5$   |
| Plastic Viscosity   | cPs                    | $65 \pm 5$   | $65 \pm 5$   |
| Yield point   | lb/100 ft <sup>2</sup> | $30 \pm 5$   | $25 \pm 5$   |
| Gel Strength  | 10 sec.                | $9 \pm 2$  | $9 \pm 2$  |
|   | 10 min.                | $12 \pm 2$   | $11 \pm 2$   |
| API Water loss  | ml                     | 1.2 – 0.2  | 1.6 – 0.2  |
| pH  |                        | $7 \pm 0.5$  | $7 \pm 0.5$  |
| Sedimentation   |                        | Nil  | Nil  |

*Starch (wheat) Continue :*

**Recommended Treatment:**

Add 5-10 lb/bbl.

**Source :**

KPA

**Packaging :**

25 kg multi ply Kraft bags with PE liner. Palletized and shrink-wrapped.  
Marked on : *Name of Manufacturer, Batch No. and Production date.*

**Safety Handling:**

- Non - toxic.
- It is recommended to use dust mask.
- Keep in dry, sheltered and shady place.

