

**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 concentration wheat starch</i>		<i>Result after rolling at 200 °F for 4 hours with fresh water</i>	<i>Result after adding 15% formation water and rolling at 200 °F 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.



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