

SOUTHERN HYDROCARBONS

PREGEL STARCHES

Pre-gelatinized starch is a cold water soluble starch and has a moderate solubility. It has such characteristics like soluble in cold water, strong water absorption and high viscosity. Our pre-gel starch binder intentionally developed to be used in charcoal, coal, coke, and biomass briquette manufacturing. Starch Binder / Briquette Binder forms an adhesive bond around the briquette particles to bind the particles together and to increase the strength of briquettes. Our made briquette binder easily mix with all the raw materials of briquette and does not cause smoke or foul smelling or corrosive gases. Our briquette binder is ash and sulfur free so finished briquette is environmental friendly and helps the briquette to burn steadily for longer hours.

SPECIFICATIONS:-PGS

S.No	PARAMETER	SPECIFICATION
1	APPEARANCE	OFF WHITE FREE FLOWING POWDER
2	PARTICLE FINENESS	50 % MIN THROUGH BSS 100 MESH
3	VISCOSITY OF 6 % SOL	50 CPS MIN (IN BROOKFIELD RVT VISCOMETER, SP.2, 100 RPM @30° C, SOLN) OR REFER POINT NO 4
4	VISCOSITY OF 2.5% SOL	20 CPS MIN (IN BROOKFIELD RVT VISCOMETER, SP2 OR SP1 AT 60 RPM @ 30°C,SOLN)
5	MOISTURE	10 % MAX
6	BULK DENSITY (WITHOUT TAPPING)	0.5 G / CC
7	BULK DENSITY (WITH 25 TAPPING)	0.65 G / CC
8	ASH CONTENT	2 % MAX @ 800 O C FOR 1 HR
9	PH OF 2 % SOLN.	07 TO 09
10	COLD WATER SOLUBILITY	30% MIN

PROCEDURE FOR TESTING POINT NO 4:-

In 390 ml of water add slowly 10 gm of substance stir in Remi stirrer at 2000 rpm for 5 minutes and check the sol in RVT Brookfield viscometer spindle no 1 or spindle no 2 at 60 rpm @ 30 c. the reading should be min 30 cps, if not then the material fails in viscosity front and there will not be proper adhesion

Application:-



- Drop test passed at high height dropping.
- Good mechanical strength and durability.
- Due to high strength maintain the briquette quality at the production stage and also during transport and storage.
- Starch Binder / Briquette Binder helps to hold the briquette together satisfactorily in the fire.
- Briquettes made from our binder produce a hot, long-lasting, virtually smokeless fire.
- Starch Binder / Briquette Binder is clean burning binder and does not increase ash content.
- Our binder is not effect to briquette in burning capability / Gross calorific value (GCV).
- Starch Binder / Briquette Binder helps to reduce the breakage and fines.

PACKING

THE PRODUCT IS AVAILABLE IN 50 KG HDPE BAG WITH HMHDPE INNER LINER.

Works

SOUTHERN HYDROCARBONS

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