



**ITC LIMITED - PAPER BOARDS AND SPECIALTY PAPERS DIVISION**  
**UNIT :- BHADRACHALAM**

**SPECIFICATION SHEET**

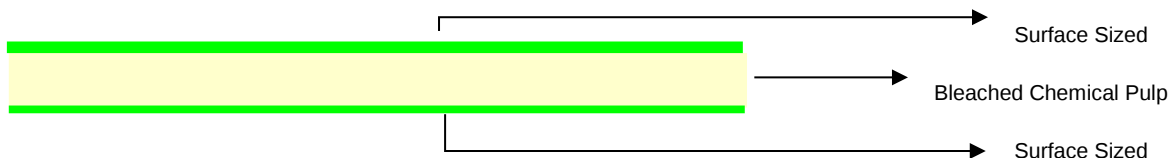
**GRADE NAME : ALFA ZAP HI BULK**  
**GRADE ID : ZALH**

**SPEC No : ZAP/ZALH/PSPD/BCM/VI/004**  
**Format No : F/QISD/1**

|                                                    |
|----------------------------------------------------|
| SUBSTANCE (GSM)<br>QS/TM/55<br>TAPPI T 410 om - 98 |
| 54<br>56<br>58<br>60                               |
| ± 5%                                               |

| PARAMETERS                                                 | UNITS | 54 - 60                  |
|------------------------------------------------------------|-------|--------------------------|
| BULK                                                       | cc/g  | 1.52 ± 0.05              |
| TEAR FACTOR<br>QS/TM/57, TAPPI T 414                       |       | 46 MIN                   |
| COBB<br>TOP SIDE<br>WIRE SIDE<br>QS/TM/09, TAPPI T 441     | GSM   | 28 Max<br>28 Max         |
| BREAKING LENGTH<br>MD<br>CD<br>QS/TM/59, TAPPI T 494       | mtrs  | 4700(-500)<br>2700(-400) |
| MOISTURE<br>QS/TM/35, TAPPI T 412                          | %     | 4.0 - 5.0                |
| BRIGHTNESS<br>QS/TM/77, TAPPI 452                          | %     | 94 Min                   |
| OPACITY<br>QS/TM/80, TAPPI 519                             | %     | 89(-1)                   |
| CIE WHITENESS D 65<br>QS/TM/78, TAPPI 500                  | %     | 155(-5)                  |
| WAX PICK<br>TOP SIDE<br>WIRE SIDE<br>QS/TM/62, TAPPI T 459 | NO    | 11A<br>11A               |

**CONSTRUCTION**



**Note :**

- 1.) All Properties are according to ITC Limited, PSPD Unit:BCM Measurements
- 2.) Test Climate 23°C/50%RH
- 3.) Tolerances are based upon 95% Confidence limits of single mill measurements of conditioned random samples