



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

**SPECIFICATION SHEET**

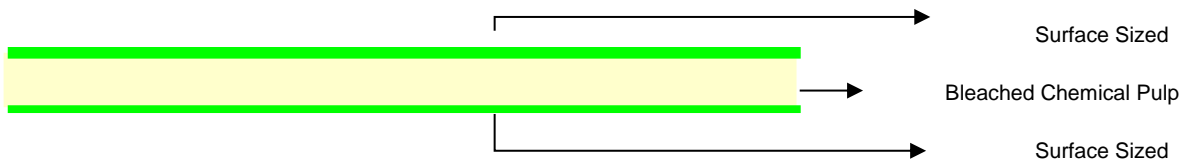
**GRADE NAME : ALFA ZAP**  
**GRADE ID : ZAP**

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

SUBSTANCE (GSM) QS/TM/55 TAPPI T 410 om - 98
54
56
58
60
64
65
70
78
80
90
100
105
110
120
± 5%

PARAMETERS	UNITS	54-60 GSM	64-70 GSM	78/80 GSM	90-105 GSM	110-120 GSM
BULK	cc/g	1.25 ± 0.03	1.23 ± 0.03	1.22 ± 0.03	1.22 ± 0.03	1.22 ± 0.03
TEAR FACTOR QS/TM/57, TAPPI T 414		46 MIN	46 MIN	46 MIN	46 MIN	46 MIN
COBB						
TOP SIDE	GSM	28 Max	28 Max	28 Max	28 Max	28 Max
WIRE SIDE		28 Max	28 Max	28 Max	28 Max	28 Max
QS/TM/09 , TAPPI T 441						
BREAKING LENGTH	MD CD					
		mtrs	4700(-500) 2700(-400)	4700(-500) 2700(-400)	4700(-500) 2700(-400)	4500(-500) 2400(-400)
QS/TM/59 , TAPPI T 494						
MOISTURE QS/TM/35 , TAPPI T 412	%	4.0 - 5.0	4.0 - 5.0	4.0 - 5.0	4.5 - 5.5	4.5 - 5.5
BRIGHTNESS	%	94 Min	94 Min	94 Min	94 Min	94 Min
QS/TM/77 , TAPPI 452						
OPACITY						
QS/TM/80 , TAPPI 519	%	89(-1)	89(-1)	91(-1)	93(-1)	93(-1)
CIE WHITENESS D 65						
QS/TM/78 , TAPPI 500	%	157(-5)	157(-5)	157(-5)	157(-5)	157(-5)
WAX PICK						
TOP SIDE	NO	12A	12A	12A	12A	12A
WIRE SIDE		12A	12A	12A	12A	12A
QS/TM/62 , TAPPI T 459						
ROUGHNESS (BENDTSEN)						
TOP SIDE	ml/min					
AVG		120±50	125±50	145±50	155±50	215±50
WIRE SIDE	ml/min					
AVG		65±30	70±30	80±30	85±30	120±30
QS/TM/48 , ISO 8791 – 2						

**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