






Test Date : 18-09-25
Test Requested By : Soccer U
Designation : N/A
Report Type : Random Trials
Sample Description : PU ANLI CAMPUS Football
Season : NA
Working Number : N/A
Article Description : Entry Level Match Balls
Article Number : EXCALIBUR Match Balls
Colorway Name : N/A
Amount of Samples : 3 Ball
Size : 5
Test According to : IMS
Age Group : Adults
Artwork/Trims : N/A
Country of Supplier : Pakistan

CATEGORY 1	All balls stamped with "FIFA Quality PRO" logo (replaced "FIFA APPROVED").	
CATEGORY 2	All balls stamped with "FIFA Quality" logo (replaced "FIFA INSPECTED").	
CATEGORY 3	All balls stamped with "FIFA BASIC" logo (replaced "IMS").	

Sample Photo:





Section: Summary of Test Results:

Test Description	Test Method	Conclusion Pass/Fail
Ball Weight	FGT-35	PASS
Circumference & Sphericity Measurement	FGT-37	PASS
Loss of Pressure	FGT-38	PASS
Rebound at Room Climate	FGT-39	PASS
Rebound at Cold Climate (5°C)	FGT-39	PASS
Dynamic Water Absorption	FGT-40	PASS
Shooter Test (Durability)	FGT-41	PASS
Increase in circumference & Sphericity - After Shooter Test	FGT-37	PASS

Section: Finish Goods Test(s) Results Details:

1- Ball Weight:

Test According to the FIFA test method **FGT-35**

EVALUATION:

- Note the weight of the balls according to the different FGT-Reports.

Test Condition: 0.8 bar Air Pressure of Ball.

Test Description	Method	Condition	Unit	Requirement			Results	
				CAT.1	CAT.2	CAT.3	Min	Max
Ball Weight	FGT-35	0.8 Bar	Grams	420-445	420-450	410-450		425



2- Circumference & Sphericity Measurement:

Test According to the FIFA test method **FGT-37**

EVALUATION:

- Note the value of sphericity and circumference according to the different FIFA FGT-reports.

Test Condition: 0.8 Bar Air Pressure of ball.

Test Description	Method	Condition	Unit	Requirement			Results	
				CAT.1	CAT.2	CAT.3	Min	Max
Circumference	FGT-37	0.8 Bar	Cm	68.5-69.5	68.0-69.5	68.0-70.0	68.2	68.5
Sphericity/ Deviation	FGT-37	0.8 Bar	%	Max 1.3	Max 1.6	Max 1.6		1.18

3- Loss of Pressure:

Test According to the FIFA test method **FGT-38**

EVALUATION:

- Calculate the loss of pressure in percentage:

Test Condition: 23 ± 2 ° C, $60 \pm 5\%$ 10% rel. humidity. 1.0 Bar Air Pressure of ball for 72 hours

Test Description	Method	Condition	Unit	Requirement			Results	
				CAT.1	CAT.2	CAT.3	Min	Max
Loss of Pressure	FGT-38	1.0 Bar	%	Max 20	Max 25	Max 25		7

4- Rebound at Room Climate:

Test According to the FIFA test method FGT- 39

EVALUATION:

- Calculate the average of the rebound height per ball according to the different FIFA FGT - reports.

Test Condition: 23 ± 2 ° C, $60 \pm 5\%$ 10% rel. humidity. Adjust the pressure of the balls to 0.8 ± 0.05 bar
Adjust the drop height to 2 m, Do 10 measurements per ball on different panels, but not the valve panel.

Test Description	Method	Condition	Unit	Requirement			Results	
				CAT.1	CAT.2	CAT.3	Min	Max
Rebound at Room Climate	FGT-39	0.8 Bar	Cm	135-155	125-155	115-155	135.20	140.30



5- Rebound at Cold Climate (5°C):

Test According to the FIFA test method FGT- 39

EVALUATION:

- Calculate the average of the rebound height per ball according to the different FIFA FGT - reports.

Test Condition: 23 ± 2 ° C, $60 \pm 5\%$ 10% rel. humidity. Adjust the pressure of 0.9 bar for 11 h at 5°C, Adjust the pressure of each ball to 0.82 bar and store the balls again for approx 1 h at 5°C.

Test Description	Method	Condition	Unit	Requirement			Results	
				CAT.1	CAT.2	CAT.3	Min	Max
Rebound at Cold Climate (5°C)	FGT-39	0.8bar; 5°C/12h fridge	Cm	Min 130	Min 120	Min 110		137.1

6- Dynamic Water Absorption - (After shooter):

Test According to the FIFA test method FGT- 40

EVALUATION:

- Calculate the water uptake in percent:

$$C_{\text{uptake}} = \frac{m_2 - 100\%}{m_1} - 100\%$$

Test Condition: Adjust the pressure to 0.8bar, 300 Cycles at the water level up to a height of 2 ± 0.2 cm.

Test Description	Method	Condition	Unit	Requirement			Results	
				CAT.1	CAT.2	CAT.3	Min	Max
Dynamic Water Absorption	FGT-40	after 300 cycles	%	max 10% / ball	max 10% / ball	max 15% / ball		0.80

7- Shooter test (Durability):

Test According to the FIFA test method FGT-41

EVALUATION:

- Check if there is any material delamination on the ball, Check if there is any torn thread/stitch visible Is the loss of pressure higher than 0.1bar, cut the ball and check the valve for any visible defect.

Test Condition: 23 ± 2 ° C, $60 \pm 5\%$ 10% rel. humidity. 0.8 bar ball pressure, 2000 shoots at Impact speed on the steel plate: 50 km/h.



Test Description	Method	Condition	Unit/ Cycles	Requirement			Results	
				CAT.1 3500x	CAT.2 3000x	CAT.3 2500x	Min	Max
Shooter test (Durability)	FGT-41	0.8bar after cycles completed	cm	max 1.5	max 1.5	max 1.5		1.17
Change of Pressure in reference to initial pressure	FGT-41	0.8bar after cycles completed	Bar	max 0,1	max 0,1	max 0,1		0.045

8- Increase in circumference & Sphericity (After Shooter Test):

Test According to the FIFA test method FGT-37

EVALUATION:

- Calculate the increase in circumference, Evaluate the increase in circumference and the

$$C_{\text{increase}} = C_2 - C_1$$

deviation in sphericity in ref. to 100% roundness according to the different Categories in the FGT – report:

Test Description	Method	Condition	Unit	Requirement			Results	
				CAT.1	CAT.2	CAT.3	Min	Max
Increase in Circumference	FGT-41	0.8bar after cycles completed	Cm	max 1.5	max 1.5	max 1.5	0.1	0.1
Deviation After Shooter Test	FGT-41 FGT-37	0.8bar after cycles completed	%	max 1.3	max 1.6	max 1.6		1.17