Winston XSpression SKS - ROU (200637288)









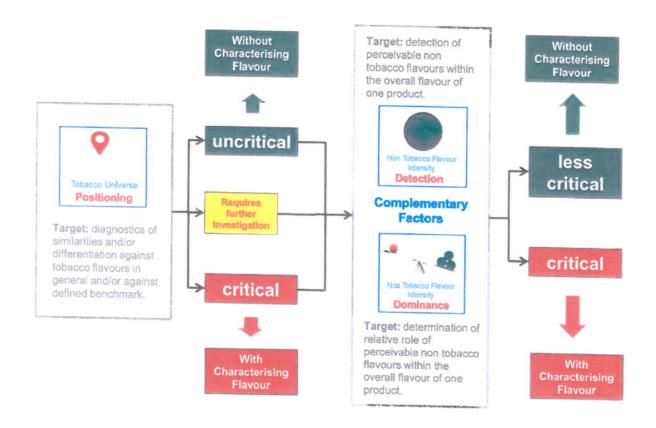
# Report QDP Test

Annex to Test Report 4867215

13th July 2020

# **Critical Factors - Decision Tree (Principles)**

Aggregated view on critical factors (matrix) leads to the risk assessment



# Report QDP sniffing test (TPD "Characterising Flavours")

#### Objective

Classification of the samples having "Characterising Flavours" or not for risk assessment.

### **Details of Samples**

Winston XSpression SKS - ROU (200637288)

#### **Procedure**

- Method: QDP sniffing assessment
- · Panel: SGS Panel, Hamburg
- · Number of Panelists: 10
- Number of data points per sample: 30
- Week of testing: 6 10 July 2020

#### **Test Execution**

- Outsourced to external agency SGS
   (Hamburg/Germany) to avoid conflict of interest and to build on sensory expertise and experience of independent third party, highly qualified as globally operating Quality Assurance Service Provider.
- SGS works according to the applicable Quality Management Systems: ISO 17025, GMP, GLP, GEP, ISO: 9001/9100, 17021/17065 and 17020.

#### Result

Aggregated view on critical factors - Positioning, Detection, Dominance - following the Decision Tree results in the classification:

Winston XSpression SKS - ROU ->

RISK 3





## Winston XSpression SKS - ROU: Result - Criterion 1



Scope of criterion: overall flavour perception of a product

Reference: overall flavour from tobaccos in general

Aim: diagnostics of similarities/differentiation against tobacco flavours in general

Evaluation: Principle Component Analysis (PCA) and Cluster Analysis

#### **Actual Results**

#### **PCA**

Winston XSpression SKS - ROU

With characterising flavour -

critical

## **Cluster Analysis**

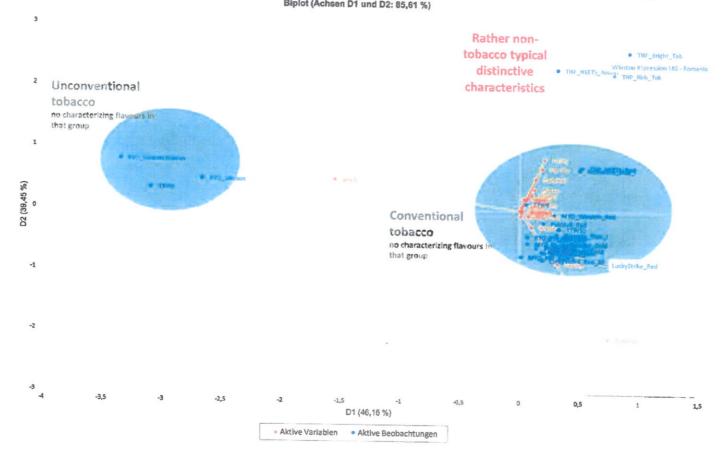
Winston XSpression SKS - ROU

With characterising flavour -

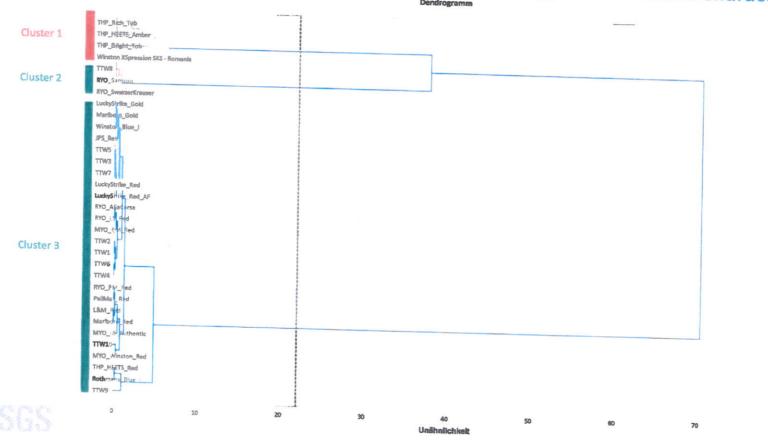
critical



# Winston XSpression SKS - ROU: Result - Criterion 1 - PCA Segment: Rather non-tobacco typical distinctive characteristics Biplot (Achsen D1 und D2: 85,61 %)



# Winston XSpression SKS - ROU: Result - Criterion 1 - Cluster Analysis Assigned to Cluster 1 (Rather non-tobacco typical distinctive characteristics)



## Winston XSpression SKS - ROU: Result - Criterion 2

2 of the non tobacco flavours have a mean value > 1 - Fruity and Citrus



Scope of criterion: perception of individual, distinctive flavour directions

Reference: identified list of tobacco typical and tobacco non typical flavour directions

Aim: split of overall flavour perception into individual flavours contributing

Evaluation: perceived absolute intensities of distinctive flavour directions

**Guiding Rules** 

Rules for classification as "characterising flavour"

non tobacco flavour mean value < 1 non tobacco flavour mean value > 1

less critical

**Actual Results** 

Mean value on 0-5 scale

			_		,		_	Non tobacco typical											
Sample			Roaste			Wood	Animali	Vanilla	Carame	Honey	Fruity	Flora	Minty	Citrus	Cacoa	Licorice	Spicy	Vicoholic	
Winston XSpression SKS - Romania						0.1		0.47	0.17	0.43	2 90	0.40	0.53	1 12	0.00	0.00			
Lucky Strike Red	4.17	0 (	1	ì	0,31			0,08	0,08	0,19	0,03	0,00	0,00	0.03	0.03	0.00	0.00	0,17	



Winston XSpression SKS - ROU

all non tobacco flavours > 1

Critical

Lucky Strike Red

all non tobacco flavours < 1

Non Critica

## Winston XSpression SKS - ROU: Result - Criterion 3

4 of the top 5 flavours are non tobacco Vanilla, Fruity, Minty and Citrus



Scope of criterion: perceived intensities of tobacco non typical flavours

Reference: perceived intensities of tobacco typical flavours in the same product

Aim: identify relevance of individual flavours contributing to overall flavour perception

Evaluation: Ranking of relative intensities of individual flavours contributing to the overall flavour perception

## Guiding Rules Top 5 Ranking

#### Rules for classification as "no characterising flavour"

- Tobacco typical flavour has to be on top 1 ranking position (highest perceived intensity)
- Tobacco typical flavour has to be at least 1,0 scale units higher in intensity than any non tobacco typical flavour
- Top 5 flavour intensities must be dominated by tobacco typical flavours (3 of the 5 most intensive flavours have to be tobacco typical)

#### **Actual Results**

Tobacco typical										Non tobacco typical													
Sample	Tobacc	Smok	Roaste	Hayilke	BlackTea	Woody	Earthy	Animalic	Vanilla	Caramel	Honey	Fruity	Flora	5	Citrus	Cacoa	Licorice	Spicy	coholic				
Winston XSpression SKS -									2000			Com		-					<				
Romania	1,63	0,07	0,10	0,10	0,13	0,10	0,07	0.00	0.47	0.17	0.43	280	0.40	0.53	1 12	0.00	0.00	0.07	0.4				
Lucky Strike Red	4,17	0,00	0,67	1,19	0,31	1,03	0,17	0,06	0,08	0,08	0,19	0,03	0,00	0,00	0,03	0.03	0.00	0.00	0,1				

LEGEND Top 5

Winston XSpression SKS - ROU:

**Lucky Strike Red:** 

Top ranking position is not tobacco, and 4 of the top 5 flavours are non tobacco. Therefore the product is **critical** 

All top 5 flavours are in the tobacco typical flavour zone

Therefore Lucky Strike Red is uncritical



### For any questions please contact:

SGS Ge

n

21035

nburg, Germa



Julia Ehrke **Group Leader Sensory Testing** +49 40 88 309 302



Alexandra Gipp M. Sc. Food Science Sensory Scientist +49 40 88 309 889

Hamburg, 16 07.2020
Detande for

Winston XSpression DS – CZ (200637289)







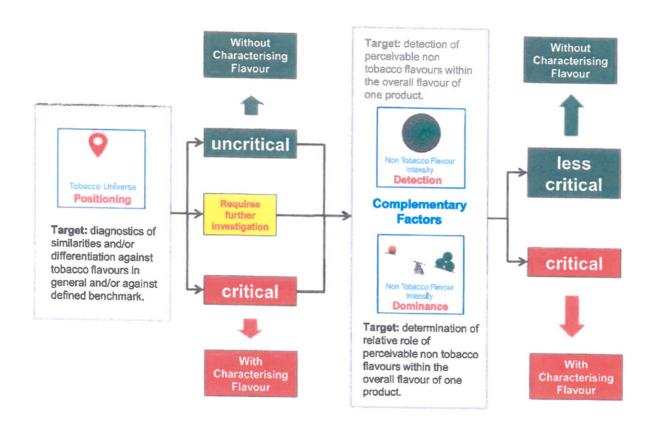
# Report QDP Test

Annex to Test Report 4867216
13th July 2020



## **Critical Factors - Decision Tree (Principles)**

Aggregated view on critical factors (matrix) leads to the risk assessment





## Report QDP sniffing test (TPD "Characterising Flavours")

#### Objective

Classification of the samples having "Characterising Flavours" or not for risk assessment.

#### **Details of Samples**

Winston XSpression DS – CZ (200637289)

#### **Procedure**

- · Method: QDP sniffing assessment
- · Panel: SGS Panel, Hamburg
- Number of Panelists: 10
- · Number of data points per sample: 30
- Week of testing: 6 10 July 2020

#### **Test Execution**

- Outsourced to external agency SGS
   (Hamburg/Germany) to avoid conflict of interest and to build on sensory expertise and experience of independent third party, highly qualified as globally operating Quality Assurance Service Provider.
- SGS works according to the applicable Quality Management Systems: ISO 17025, GMP, GLP, GEP, ISO: 9001/9100, 17021/17065 and 17020.

#### Result

Aggregated view on critical factors - Positioning, Detection, Dominance - following the Decision Tree results in the classification:

Winston XSpression DS - CZ ->

RISK 3





## Winston XSpression DS - CZ: Result - Criterion 1



Scope of criterion: overall flavour perception of a product

Reference: overall flavour from tobaccos in general

Aim: diagnostics of similarities/differentiation against tobacco flavours in general

Evaluation: Principle Component Analysis (PCA) and Cluster Analysis

## **Actual Results**

#### **PCA**

Winston XSpression DS - CZ

With characterising flavour -

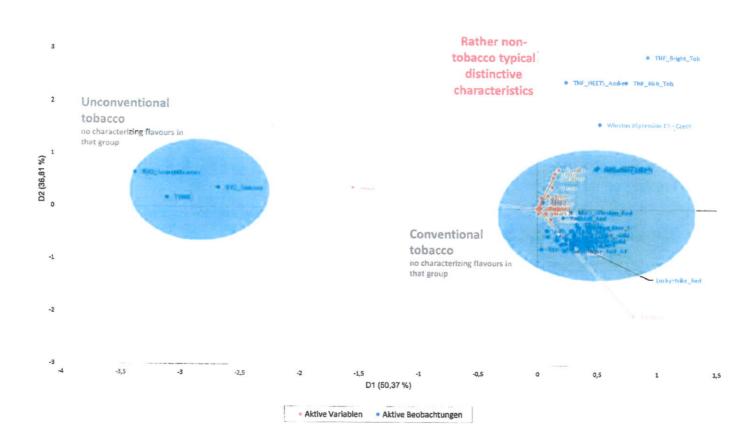
## **Cluster Analysis**

Winston XSpression DS - CZ

With characterising flavour -

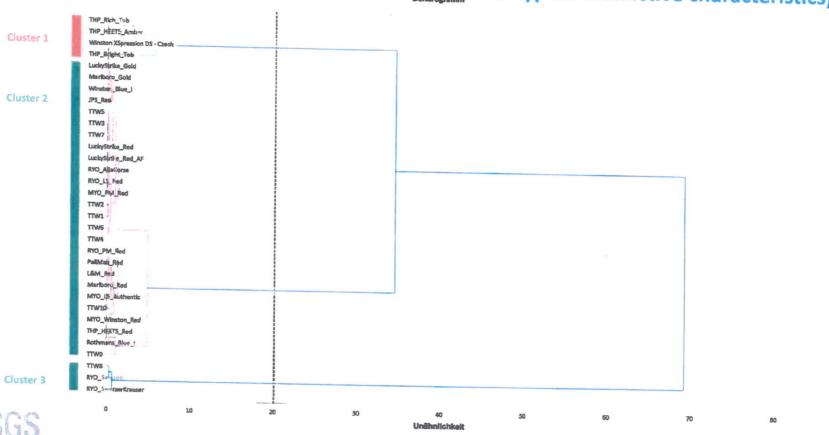
critical

# Winston XSpression DS – CZ: Result - Criterion 1 – PCA Segment: Rather non-tobacco typical distinctive characteristics Biplot (Achsen D1 und D2: 87,18 %)





# Winston XSpression DS – CZ: Result - Criterion 1 – Cluster Analysis Assigned to Cluster 1 (Rather non-tobacco typical distinctive characteristics)



## Winston XSpression DS – CZ: Result - Criterion 2

1 of the non tobacco flavours has a mean value > 1 - Fruity



Scope of criterion: perception of individual, distinctive flavour directions

Reference: identified list of tobacco typical and tobacco non typical flavour directions

Aim: split of overall flavour perception into individual flavours contributing

Evaluation: perceived absolute intensities of distinctive flavour directions

#### **Guiding Rules**

#### Rules for classification as "characterising flavour"

non tobacco flavour mean value < 1 less critical

#### **Actual Results**

#### Mean value on 0-5 scale

									N	on to	bacco	typic	al			
Sample		Roaste	Wood	Earthy	Animali	Vanilla	Caramel	Honey	Fruity	Floral	Minty	Citrus	Cacoa	Licorice	Spicy	Alcoholic
Winston XSpression DS - Czech	0	0 17				0,40	0,20	0,23	2,00	0,37	0,33	0.63	0.00	0.00	0.03	0.07
Lucky Strike Red											0,00					

LEGEND
> 1 at non
tobacco flavour

Winston XSpression DS - CZ

all non tobacco flavours > 1

Critica

Lucky Strike Red

all non tobacco flavours < 1

Von Critical

## Winston XSpression DS – CZ: Result - Criterion 3

4 of the top 7 flavours are non tobacco Vanilla, Fruity, Floral and Citrus



Scope of criterion: perceived intensities of tobacco non typical flavours

Reference: perceived intensities of tobacco typical flavours in the same product

Aim: identify relevance of individual flavours contributing to overall flavour perception

Evaluation: Ranking of relative intensities of individual flavours contributing to the overall flavour perception

## Guiding Rules Top 5 Ranking

#### Rules for classification as "no characterising flavour"

- Tobacco typical flavour has to be on top 1 ranking position (highest perceived intensity)
- Tobacco typical flavour has to be at least 1,0 scale units higher in intensity than any non tobacco typical flavour
- Top 5 flavour intensities must be dominated by tobacco typical flavours (3 of the 5 most intensive flavours have to be tobacco typical)

#### **Actual Results**

Tobacco typical										Non tobacco typical													
Sa <b>mple</b>	Tobacc	Smok	Roasted	Haylike	BlackTea	Woody	Earthy	Animalic	Vanilla	Caramel	Honey	Fruity	Flora	Minty	Citrus	Cacoa	Licorice	Spicy	Mooholic				
Winston XSpression DS - Czech	2,10	0,07	0,17	0,37	0.13	0,37	0.00	0.00	0.40	0.20	0.23	2.00	0 37	U 33	0.63	<b>n</b> 00	0.00	0.00	0.0				
Lucky Strike Red	4,17	0,00	0.67	1,19	0,31	1,03	0,17	0,06	0,08	0,08	0,19	0,03	0,00	0,00	0.03	0.03	0.00	0.00	0.00				



Winston XSpression DS - CZ:

Top ranking position is tobacco, but its intensity is not 1,0 scale units higher than the value of "fruity", also 4

of the top 7 flavours are non tobacco

Therefore the product is rather critical

Lucky Strike Red:

All top 5 flavours are in the tobacco typical flavour zone

Therefore Lucky Strike Red is uncritical



## any questions please contact:

Germany mbH

baumsweg

, 21035

burg, Germany



Julia Ehrke Group Leader Sensory Testing +49 40 88 309 302



Alexandra
M. Sc. Food Science / Sensory Scientist
+49 40 88 309 889

Hambury, 16.07.2020