

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000150 / 31/03/2021
Order item/date:
32975 000150 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

84373 Crushed Crystal Malt 110 - 25kg PPS

Batch: 201141 **Quantity:** 1SCK **Manufacturing Date:** 11/11/2020
Expiry Date: May 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	3.1	%	-	7.0
IoB Visual Wort Colour 515ml	122.0	EBC	90.0	130.0

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000170 / 31/03/2021
Order item/date:
32975 000170 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

80524 Crushed Wheat Malt - 25kg PPS

Batch: 210047 **Quantity:** 1SCK **Manufacturing Date:** 18/01/2021
Expiry Date: July 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	5.6	%	-	7.0
IoB Visual Wort Colour 515ml	3.4	EBC	-	5.0
IoB Coarse Extract 0.7mm, dry	318	L°/Kg	315	-
Total Nitrogen, dry	1.97	%	-	2.20
IoB Total Soluble Nitrogen, dry	0.61	%	-	0.85
Soluble Nitrogen Ratio - SNR	31.2		30.0	45.0
DP °IoB, asis	110	°IoB	75	130
DP °L, asis	120	°L	80	140
Alpha Amylase DU, dry	46	DU	20	

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000140 / 31/03/2021
Order item/date:
32975 000140 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

80509 Crushed Cara Malt 30 # 25kg PPS

Batch: 201173 **Quantity:** 1SCK **Manufacturing Date:** 18/11/2020
Expiry Date: May 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	7.2	%	-	8.0
IoB Visual Wort Colour 515ml	26.0	EBC	22.0	43.0

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000160 / 31/03/2021
Order item/date:
32975 000160 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

80511 Crushed Crystal Malt 150 - 25kg PPS

Batch: 201048 **Quantity:** 1SCK **Manufacturing Date:** 19/10/2020
Expiry Date: April 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.3	%	-	7.0
IoB Visual Wort Colour 515ml	145.0	EBC	120.0	175.0

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000130 / 31/03/2021
Order item/date:
32975 000130 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

84597 Crushed Light Chocolate Malt-25kg PPS

Batch: 200032 **Quantity:** 1SCK **Manufacturing Date:** 09/01/2020
Expiry Date: July 2021 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	3.2	%	-	6.0
IoB Visual Wort Colour 515ml	385.0	EBC	380.0	440.0

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000110 / 31/03/2021
Order item/date:
32975 000110 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

80506 Crushed Amber Malt - 25kg PPS

Batch: 201119 **Quantity:** 1SCK **Manufacturing Date:** 05/11/2020
Expiry Date: May 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	2.1	%	-	7.0
IoB Visual Wort Colour 515ml	40.5	EBC	45.0	75.0

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000120 / 31/03/2021
Order item/date:
32975 000120 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

80510 Crushed Chocolate Malt - 25kg PPS

Batch: 210155 **Quantity:** 1SCK **Manufacturing Date:** 17/02/2021
Expiry Date: August 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	3.6	%	-	6.0
IoB Visual Wort Colour 515ml	940.0	EBC	850.0	1200.0

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000040 / 31/03/2021
Order item/date:
32975 000040 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

85591 Crushed Pale Planet - 25kg PPS

Batch: 210211 **Quantity:** 3SCK

Manufacturing Date: 08/03/2021

Expiry Date: September 2022 **Weight:** 75KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.9	%	-	5.0
IoB Visual Wort Colour 515ml	4.1	EBC	3.4	5.2
IoB Visual Wort Colour 450g	4.8	EBC	4.0	6.0
IoB Coarse Extract 0.7mm, dry	317	L°/Kg	310	-
Total Nitrogen, dry	1.48	%	-	1.65
Soluble Nitrogen Ratio - SNR	45.9		38.0	46.0
IoB Total Soluble Nitrogen, dry	0.68	%	-	0.75
IoB FAN @ 1040 SG	171	mg/l	120	-
IoB Wort Beta Glucan 450g	77	mg/l	-	120

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000100 / 31/03/2021
Order item/date:
32975 000100 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

85200 Crushed Vienna Malt 25kg PPS

Batch: 201159 **Quantity:** 3SCK **Manufacturing Date:** 17/11/2020
Expiry Date: May 2022 **Weight:** 75KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.2	%	-	8.0
IoB Visual Wort Colour 515ml	10.9	EBC	7.0	12.0
IoB Visual Wort Colour 450g	13.0	EBC	8.1	13.9
IoB Coarse Extract 0.7mm, dry	308	L°/Kg	308	-
Total Nitrogen, dry	1.58	%	-	1.65
Soluble Nitrogen Ratio - SNR	40.5		36.0	42.0
IoB Wort Beta Glucan 450g	88	mg/l	-	200

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000090 / 31/03/2021
Order item/date:
32975 000090 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

81961 Crushed Munich Malt - 25kg PPS

Batch: 210120 **Quantity:** 3SCK **Manufacturing Date:** 09/02/2021
Expiry Date: August 2022 **Weight:** 75KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	3.5	%	-	8.0
IoB Visual Wort Colour 515ml	18.0	EBC	12.0	20.0
IoB Coarse Extract 0.7mm, dry	305	L°/Kg	300	-

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000060 / 31/03/2021
Order item/date:
32975 000060 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

85578 Crushed Ex Pale Planet - 25kg PPS

Batch: 210060 **Quantity:** 1SCK **Manufacturing Date:** 20/01/2021
Expiry Date: July 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	5.4	%	-	5.5
IoB Visual Wort Colour 515ml	2.8	EBC	-	3.4
IoB Visual Wort Colour 450g	3.3	EBC	-	4.0
IoB Coarse Extract 0.7mm, dry	314	L°/Kg	310	-
Total Nitrogen, dry	1.63	%	-	1.65
Soluble Nitrogen Ratio - SNR	39.9		35.0	40.0
IoB Total Soluble Nitrogen, dry	0.65	%	-	0.65
IoB FAN @ 1040 SG	173	mg/l	120	-
IoB Wort Beta Glucan 450g	63	mg/l	-	120

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000080 / 31/03/2021
Order item/date:
32975 000080 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

80515 Crushed Lager Malt - 25kg PPS

Batch: 210016 **Quantity:** 3SCK **Manufacturing Date:** 06/01/2021
Expiry Date: July 2022 **Weight:** 75KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	5.0	%	-	5.0
EBC Fine Extract 0.2mm asis	78.7	%	76.0	-
EBC Fine Extract 0.2mm dry	82.8	%	80.0	-
EBC Visual Wort Colour	3.6	EBC	-	4.0
Kolbach Index	38.4		38.0	44.0
Total Nitrogen, dry	1.60	%	-	1.85
EBC Total Soluble Nitrogen,dry	0.61	%	0.60	0.75
EBC Wort Beta Glucan	145	mg/l	-	220

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000050 / 31/03/2021
Order item/date:
32975 000050 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

86269 Crushed Pale - Craft - 25KG PPS

Batch: 210191 **Quantity:** 1SCK **Manufacturing Date:** 01/03/2021
Expiry Date: August 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.6	%	-	5.0
IoB Visual Wort Colour 515ml	5.1	EBC	3.4	5.2
IoB Visual Wort Colour 450g	5.9	EBC	4.0	6.0
IoB Coarse Extract 0.7mm, dry	311	L°/Kg	310	-
Total Nitrogen, dry	1.57	%	-	1.65
Soluble Nitrogen Ratio - SNR	43.5		38.0	46.0
IoB Total Soluble Nitrogen, dry	0.68	%	-	0.75
IoB FAN @ 1040 SG	173	mg/l	120	-
IoB Wort Beta Glucan 450g	81	mg/l	-	120

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000070 / 31/03/2021
Order item/date:
32975 000070 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

85391 Crushed Pilsner Malt - 25kg PPS

Batch: 210131 **Quantity:** 6SCK **Manufacturing Date:** 11/02/2021
Expiry Date: August 2022 **Weight:** 150KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.9	%	-	5.0
EBC Fine Extract 0.2mm asis	77.6	%	76.0	-
EBC Fine Extract 0.2mm dry	81.8	%	80.0	-
EBC Visual Wort Colour	3.6	EBC	-	3.7
Kolbach Index	39.5		38.0	44.0
Total Nitrogen, dry	1.75	%	-	1.85
EBC Total Soluble Nitrogen,dry	0.69	%	0.60	0.75
EBC Wort Beta Glucan	150	mg/l	-	150

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000020 / 31/03/2021
Order item/date:
32975 000020 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

85107 Crushed Ex Pale - Maris Otter® -25kg PPS

Batch: 201018 **Quantity:** 1SCK **Manufacturing Date:** 07/10/2020
Expiry Date: April 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.5	%	-	5.0
IoB Visual Wort Colour 515ml	3.0	EBC	-	3.4
IoB Visual Wort Colour 450g	3.5	EBC	-	4.0
IoB Coarse Extract 0.7mm, dry	307	L°/Kg	306	-
IoB Total Soluble Nitrogen, dry	0.59	%	-	0.65
Total Nitrogen, dry	1.52	%	-	1.65
Soluble Nitrogen Ratio - SNR	38.8		35.0	40.0
IoB Wort Beta Glucan 450g	85	mg/l	-	120
IoB FAN @ 1040 SG	160	mg/l	120	-

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000030 / 31/03/2021
Order item/date:
32975 000030 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

85103 Whole Pale - Maris Otter® - 25kg PPS

Batch: 210203 **Quantity:** 1SCK
Expiry Date: September 2022 **Weight:** 25KG

Manufacturing Date: 03/03/2021

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.3	%	-	4.5
IoB Visual Wort Colour 515ml	4.2	EBC	3.4	5.2
IoB Visual Wort Colour 450g	5.0	EBC	4.0	6.0
IoB Coarse Extract 0.7mm, dry	307	L°/Kg	306	-
IoB Total Soluble Nitrogen, dry	0.65	%	-	0.65
Total Nitrogen, dry	1.50	%	-	1.65
Soluble Nitrogen Ratio - SNR	43.3		38.0	46.0
IoB Wort Beta Glucan 450g	108	mg/l	-	120
IoB FAN @ 1040 SG	174	mg/l	120	-
Friability	92.2	%	85.0	-
Homogeneity	99.5	%	96.0	-

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000010 / 31/03/2021
Order item/date:
32975 000010 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

85106 Crushed Pale - Maris Otter® - 25kg PPS

Batch: 210150 **Quantity:** 10SCK **Manufacturing Date:** 16/02/2021
Expiry Date: August 2022 **Weight:** 250KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	4.2	%	-	4.5
loB Visual Wort Colour 515ml	4.6	EBC	3.4	5.2
loB Visual Wort Colour 450g	5.4	EBC	4.0	6.0
loB Coarse Extract 0.7mm, dry	307	L°/Kg	306	-
loB Total Soluble Nitrogen, dry	0.65	%	-	0.65
Total Nitrogen, dry	1.50	%	-	1.65
Soluble Nitrogen Ratio - SNR	43.3		38.0	46.0
loB Wort Beta Glucan 450g	112	mg/l	-	120
loB FAN @ 1040 SG	170	mg/l	120	-

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000190 / 31/03/2021
Order item/date:
32975 000190 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

86322 Crushed Dextrin Malt - 25kg PPS

Batch: 201298 **Quantity:** 1SCK **Manufacturing Date:** 30/12/2020
Expiry Date: July 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	5.0	%	-	7.0
IoB Visual Wort Colour 450g	3.3	EBC	-	7.0
IoB Coarse Extract 0.7mm, dry	310	L°/Kg	250	-

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.

South Cheshire Ingredients Group
2 Cookesmere Lane
SANDBACH
Cheshire
CW11 1BG
UNITED KINGDOM

Quality Certificate

Date:
30/03/2021
Purchase order item/date:
250321A / 25/03/2021
Delivery item/date:
80054523 000180 / 31/03/2021
Order item/date:
32975 000180 / 25/03/2021
Customer number:
20748

Material: Our / Your reference

83070 Malted Wheat Flakes 25kg Sacks (Std)

Batch: 210097 **Quantity:** 1SCK **Manufacturing Date:** 02/02/2021
Expiry Date: February 2022 **Weight:** 25KG

Characteristic	Value	Unit	Lower Limit	Upper Limit
Moisture Content	7.4	%	-	9.0
IoB Visual Wort Colour 515ml	42.5	EBC	25.0	55.0
Hagberg - Typical Analysis	200	s	70	-
DP °L, asis	< 2	°L	-	5
Alpha Amylase DU, dry	< 2	DU	-	3
Thickness of Flake	1.62	mm	1.00	1.75

This product has been manufactured by Muntons Plc under conditions which comply with all relevant food safety legislation.