

51 EBC

## Strong Scottish Ale (20231216) - 5.9%

01 Brouwpunt 5L (60min) (rev 4) Scottish Export

Author: George@homebrewinguk.com

Type: All Grain

IBU : 38 (Tinseth) BU/GU : 0.63

Colour : 51 EBC : 2.4 CO2-vol Carbonation

Pre-Boil Gravity : 1.047 : 1.061 Original Gravity Final Gravity : 1.016

Fermentables (1.59 kg)

1.22 kg - Mash - Pale Ale Malt 5.5 EBC (76.9%)

^ The Malt Miller (UK) MAL-00-042 122 g - Mash - Rye Malt 25 EBC (7.7%) ^ The Malt Miller (UK) MAL-00-037 61 g - Mash - Carapils 4 EBC (3.8%) ^ Brouwmaatje (NL) BM-BL.051.307.7/1

61 g - Mash - Torrified Wheat 3.9 EBC (3.8%)

^ The Malt Miller (UK) MAL-03-006

49 g - Mash - Extra Dark Crystal Malt 400 EBC...

^ The Malt Miller (UK) MAL-01-004

37 g - 30 min - Steep - Chocolate Malt 950 EB...

^ The Malt Miller (UK) MAL-02-004

37 g - 30 min - Steep - Roasted Barley 1300 E...

^ The Malt Miller (UK) MAL-02-007

Hops (11.2 g)

60 min - 11.2 g - First Gold (T90) - 7.5% (38...

^ The Malt Miller (UK) HOP-04-006

Miscellaneous

Mash - 0.66 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 1.21 g - Calcium Chloride (CaCl2) 33 %... Boil Volume:

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.65 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 1.22 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 1.57 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004 Mash - 0.4 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Yeast

0.2 pkg - Crossmyloof Beòir

Batch Size : 5.6 L Boil Size : 7.76 L Post-Boil Vol : 5.96 L

Mash Water : 4.36 L : 4.91 L Sparge Water Boil Time : 60 min

Total Water : 9.27 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

01 One Step Mash (90 min)

68.7 °C - Strike Temp

63 °C - 90 min - Temperature 80  $^{\circ}\text{C}$  - 10 min - Mash out

Fermentation Profile

01 Ale + DR + Conditioning

18 °C - 10 days - Primary

21 °C - 4 days - Diacetyl rest

18 °C - 14 days - Carbonation

18 °C - 28 days - Conditioning

Water Profile

02 NL Spa Reine Flat Mineral Water (www.ah.nl...

Ca 60 Mg 15 Na 50 Cl 75 SO 150 HCO 68

SO/Cl ratio: 2 Mash pH: 5.4 Sparge pH: 6

Measurements

Mash pH:

Pre-Boil Gravity:

Post-Boil Kettle Volume:

Original Gravity:

Fermenter Top-Up:

Fermenter Volume:

Final Gravity:

Bottling Volume: