

**23 EBC** 

## Centennial Pale Ale v1 - 6.8%

American Pale Ale

Author: EspeciallyBitter@homebrewinguk.com

Type: All Grain

IBU : 90 (Tinseth)

BU/GU : 1.44
Colour : 23 EBC
Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.046
Original Gravity : 1.060
Total Gravity : 1.062
Final Gravity : 1.010

Fermentables (1.52 kg)

1.196 kg - Pale Ale Malt 2-Row 7.9 EBC (78.9%)

236 g - Munich II 16.7 EBC (15.6%)

84 g - English Crystal Malt 150 EBC (5.5%)

30 g - Bottling - Sugar, Table (Sucrose) 2 EBC

^ Albert Heijn (NL)

Hops (52.8 g)

60 min - 2.6 g - Centennial - 9% (11 IBU)

^ Worcester Hop Shop (UK)

60 min - 2.6 g - Horizon - 12% (14 IBU)

50 min - 2.8 g - Centennial - 9% (11 IBU)

^ Worcester Hop Shop (UK)

40 min - 3.4 g - Centennial - 9% (13 IBU)

^ Worcester Hop Shop (UK)

30 min - 3.4 g - Centennial - 9% (11 IBU)

^ Worcester Hop Shop (UK)

20 min - 5 g - Centennial - 9% (13 IBU)

^ Worcester Hop Shop (UK)

10 min - 5 g - Centennial - 9% (9 IBU)

^ Worcester Hop Shop (UK)

5 min - 5.6 g - Centennial - 9% (6 IBU)

^ Worcester Hop Shop (UK)

**Hop Stand** 

10 min hopstand @ 80 °C

10 min - 5.6 g - Centennial - 9% (2 IBU)

Dry Hops

4 days - 16.8 g - Centennial - 9%

Miscellaneous

Mash - 0.83 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 0.53 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.51 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 1.23 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7

Mash - 3.26 g - Gypsum (CaSO4)

^ The Malt Miller (UK) CHE-03-004

Mash - 0.2 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

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

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

Mash Water : 4.55 L Sparge Water : 4.79 L Boil Time : 60 min

Total Water : 9.34 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

01 One Step Mash (90 min)

72.1 °C - Strike Temp

66 °C - 90 min - Temperature

Fermentation Profile

01 Ale + DR + Conditioning

18 °C - 10 days - Primary

21  $^{\circ}\text{C}$  - 4 days - Diacetyl rest

18  $^{\circ}\text{C}$  - 14 days - Carbonation

18 °C - 28 days - Conditioning

Water Profile

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

Ca 93 Mg 15 Na 49 Cl 50 SO 250

SO/Cl ratio: 5 Mash pH: 5.4 Sparge pH: 6

Measurements

Mash pH:

Boil Volume:

Pre-Boil Gravity:

Post-Boil Kettle Volume:

Original Gravity:

Fermenter Top-Up:

Fermenter Volume:

Final Gravity:

Bottling Volume:

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## Recipe Notes

Target: ABV = 6.7 %, IBU = 70, EBC = 34, OG = 1.065, FG = 1.013.