

Liquor Report



Bovorovice
Sample No. 3972 E
Sample Name: Water
Date: 12 September 2024

Please find below the results of your water analysis & recommendations for treatment.

AMS- Added to the water tanks (CLT or HLT)

DWB- Added to the malt grist

Flake- Added to the malt grist

Example: 10HI brew length with a 30HI Hot water tank (HLT)

AMS 60ml/HI = 1.8L added to all the 3000L of water and mixed. A minimum of 30 mins is required to react.

DWB 65g/HI = 650g mixed into the grist and used to brew 1000L of wort

Flake 10g/HI= 100g mixed into the grist and used to brew 1000L of wort

Ions (All figures in PPM)	Calcium	Magnesium	Chloride	Sulphate	Alkalinity (as CaCO3)
Raw Liquor	33	5	7	33	70

Ruth Newby
Senior Chemist

Pale Ale Styles	Calcium	Magnesium	Chloride	Sulphate	Alkalinity (as CaCO3)
Treated Liquor	190	10	171	368	40
Raw Liquor	33	5	7	33	70
Profile	220	50	250	400	60
Limits	160	0	150	250	20

Additions rates (Nearest whole number)

Treatment products	Per UK barrel	Per HL	Per 25L
AMS - into all liquor	27	16	4
DWB - into the mash (g)	140	86	21
Calcium Chloride			

Key Goals

- Low alkalinity
- 2:1 Sulphate:Chloride
- Sufficient calcium

Balanced Styles	Calcium	Magnesium	Chloride	Sulphate	Alkalinity (as CaCO3)
Treated Liquor	123	6	141	141	40
Raw Liquor	33	5	7	33	70
Profile	170	50	200	200	60
Limits	120	0	0	0	30

Additions rates (Nearest whole number)

Treatment products	Per UK barrel	Per HL	Per 25L
AMS - into all liquor	27	16	4
DWB - into the mash (g)	41	25	6
Calcium Chloride	26	16	4

Key Goals

- Low alkalinity
- 1:1 Sulphate:Chloride
- Sufficient calcium

Dark Beer Styles	Calcium	Magnesium	Chloride	Sulphate	Alkalinity (as CaCO3)
Treated Liquor	156	6	201	99	70
Raw Liquor	33	5	7	33	70
Profile	170	50	300	150	150
Limits	130	0	150	50	50

Additions rates (Nearest whole number)

Treatment products	Per UK barrel	Per HL	Per 25L
AMS - into all liquor			
DWB - into the mash (g)	29	18	4
Calcium Chloride	54	33	8

Key Goals

- Moderate alkalinity
- 1:2 Sulphate:Chloride
- Sufficient calcium