

Dywizjon 303

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **25**
- SRM **14.9**
- Style **Brown Porter**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **65 min**
- Evaporation rate **10 %/h**
- Boil size **26.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **16 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16 liter(s)** of strike water to **74C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **14.6 liter(s)** of **76C** water or to achieve **26.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.6 kg (90%)	85 %	7
Grain	Caraaroma	0.3 kg (7.5%)	78 %	400
Grain	Weyermann - Carafa I	0.1 kg (2.5%)	70 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Progress	20 g	60 min	6.6 %
Boil	Progress	10 g	15 min	6.6 %
Aroma (end of boil)	English Golding	30 g	10 min	4.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale