Altbier #1

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **37**
- SRM **13.3**
- Style Düsseldorf Altbier

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.6 liter(s)
- Total mash volume 20.8 liter(s)

Steps

• Temp 66 C, Time 45 min

Mash step by step

- Heat up 15.6 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 45 min at 66C
- Sparge using 14.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ II	5 kg <i>(96.2%)</i>	79 %	22
Grain	Strzegom Karmel 300	0.2 kg <i>(3.8%)</i>	70 %	299

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	25 g	60 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	11.5 g	Safbrew