#32 Alt

- Gravity 14.3 BLG
- ABV **5.9** %
- IBU **42**
- SRM **15.3**
- 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 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.3 liter(s)
- Total mash volume 21.7 liter(s)

Steps

- Temp **64 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 16.3 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 40 min at 64C
- Keep mash 20 min at 72C
- Keep mash 5 min at 78C
- Sparge using 14.4 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ I	5 kg <i>(92.2%)</i>	79 %	16
Grain	Castlemalting - Cara Clair	0.25 kg <i>(4.6%)</i>	78 %	4
Grain	Special B Malt	0.1 kg <i>(1.8%)</i>	65.2 %	315
Grain	Strzegom Barwiący	0.075 kg (1.4%)	68 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	60 g	60 min	5 %
Boil	Tradition	20 g	30 min	5 %
Boil	Tradition	20 g	10 min	5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Gozdawa - Old German Altbier	Ale	Dry	10 g	

Extras

Туре	Name	Amount	Use for	Time
Fining	whirlfloc	0.5 g	Boil	10 min