Dusseldorf ala Altbier

- · Gravity 14 BLG
- ABV 5.8 %
- IBU **49**
- SRM **11.1**
- Style Düsseldorf Altbier

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 5 %
- Size with trub loss 16.5 liter(s)
- · Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 20.1 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 16.7 liter(s)
- Total mash volume 21.5 liter(s)

Steps

- Temp **63 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 16.7 liter(s) of strike water to 69.1C
- · Add grains
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Keep mash 1 min at 78C
- Sparge using 8.2 liter(s) of 76C water or to achieve 20.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Monachijski typ I	4 kg (83.9%)	80 %	15
Grain	Weyermann pszeniczny jasny	0.25 kg <i>(5.2%)</i>	80 %	6
Grain	Weyermann - Carared	0.5 kg <i>(10.5%)</i>	75 %	45
Grain	Carafa II	0.02 kg <i>(0.4%)</i>	70 %	812

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	11.6 %
Boil	Magnum	15 g	40 min	11.6 %
Boil	Tettnang	20 g	15 min	3.8 %
Aroma (end of boil)	Tettnang	10 g	1 min	3.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM50 Kłosy Kansas	Wheat	Liquid	80 ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	2.5 g	Boil	10 min