Munich Dunkel

- Gravity 12.9 BLG
- ABV ----
- IBU 22
- SRM **18.4**
- Style Munich Dunkel

Batch size

- Expected quantity of finished beer 17 liter(s)
- Trub loss 5 %
- Size with trub loss 17.9 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 21.6 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 11.2 liter(s)
- Total mash volume 15 liter(s)

Steps

• Temp 65.5 C, Time 45 min

Mash step by step

- Heat up 11.2 liter(s) of strike water to 73.1C
- Add grains
- Keep mash 45 min at 65.5C
- Sparge using 14.2 liter(s) of 76C water or to achieve 21.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Munich Malt	3 kg (80%)	80 %	18
Grain	Briess - Munich Malt 20L	0.3 kg (8%)	74 %	39
Grain	Pale Chocolate	0.15 kg <i>(4%)</i>	72 %	400
Grain	Melanoiden Malt	0.3 kg (8%)	80 %	39

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tettnang	50 g	30 min	4 %