

Dunkel

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **20**
- SRM **20.7**
- Style **Dunkelweizen**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.7 liter(s)**
- Total mash volume **11.6 liter(s)**

Steps

- Temp **62 C**, Time **60 min**

Mash step by step

- Heat up **8.7 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **60 min** at **62C**
- Sparge using **9.4 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.1 kg (37.9%)	80 %	5
Grain	Pszeniczny	1.3 kg (44.8%)	85 %	4
Grain	Biscuit Malt	0.2 kg (6.9%)	79 %	45
Grain	Strzegom Karmel 600	0.3 kg (10.3%)	68 %	601

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	100 ml	Safale