

dunkel weizen

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **8**
- SRM **17.8**
- Style **Dunkelweizen**

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 **14.5 %/h**
- Boil size **26.3 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **5.81 liter(s) / kg**
- Mash size **32 liter(s)**
- Total mash volume **37.5 liter(s)**

Steps

- Temp **46 C**, Time **10 min**
- Temp **53 C**, Time **15 min**
- Temp **63 C**, Time **30 min**
- Temp **73 C**, Time **10 min**

Mash step by step

- Heat up **32 liter(s)** of strike water to **48.2C**
- Add grains
- Keep mash **10 min** at **46C**
- Keep mash **15 min** at **53C**
- Keep mash **30 min** at **63C**
- Keep mash **10 min** at **73C**
- Sparge using **-0.2 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	1.8 kg (32.7%)	80 %	4
Grain	Strzegom Pszeniczny	2.6 kg (47.3%)	81 %	6
Grain	Strzegom Monachijski typ II	0.6 kg (10.9%)	79 %	22
Grain	Strzegom Karmel 300	0.3 kg (5.5%)	70 %	299
Grain	Strzegom Czekoladowy jasny	0.1 kg (1.8%)	68 %	400
Grain	Strzegom pszenica prażona	0.1 kg (1.8%)	70 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	20 g	25 min	4 %
Boil	Lublin (Lubelski)	20 g	5 min	4 %
Boil	Lublin (Lubelski)	0 g	70 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	666 ml	Fermentum Mobile