

Dolina Narwi

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **39**
- SRM **4.2**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **1 %**
- Size with trub loss **20.2 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **25.2 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.2 liter(s)**
- Total mash volume **19.6 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **15.2 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **40 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **25.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.9 kg (89.7%)	80 %	4
Grain	Viking Pale Ale malt	0.3 kg (6.9%)	80 %	6
Grain	Strzegom Karmel 150	0.05 kg (1.1%)	75 %	150
Grain	Weyermann - Acidulated Malt	0.1 kg (2.3%)	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	30 g	70 min	5.5 %
Boil	Tradition	30 g	30 min	5.5 %
Aroma (end of boil)	Tradition	35 g	5 min	5.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	11.5 g	---

Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

Type	Name	Amount	Use for	Time
Fining	Mech Irlandzki	5 g	Boil	15 min