

Pils Noworoczny

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **41**
- SRM **3.7**
- Style **German Pilsner (Pils)**

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 **15 %/h**
- Boil size **28.8 liter(s)**

Mash information

- Mash efficiency **74 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (90.9%)	81 %	4
Grain	Weyermann - Carapils	0.5 kg (9.1%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	25 g	60 min	14.6 %
Boil	Mandarina Bavaria	25 g	5 min	7.7 %
Aroma (end of boil)	Mandarina Bavaria	25 g	0 min	7.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Liquid	200 ml	Fermentum Mobile
STARTER				

Extras

Type	Name	Amount	Use for	Time
Other	Wyeast Nutrient	2.5 g	Boil	10 min