PILS NIEMIECKI

- Gravity 10.5 BLG
- ABV 4.2 %
- IBU 42
- SRM **8**
- Style Bohemian Pilsener

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 27.6 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.8 liter(s)
- Total mash volume 18.4 liter(s)

Steps

- Temp **51 C**, Time **10 min** Temp **62 C**, Time **30 min** Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up 13.8 liter(s) of strike water to 56.2C
- Add grains
- Keep mash 10 min at 51C
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 2 min at 78C
- Sparge using 18.4 liter(s) of 76C water or to achieve 27.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg <i>(43.5%)</i>	81 %	4
Grain	Monachijski	2 kg <i>(43.5%)</i>	80 %	16
Grain	Płatki owsiane	0.4 kg (8.7%)	85 %	3
Grain	Crystal II 200	0.2 kg <i>(4.3%)</i>	71 %	200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	25 g	60 min	13.5 %
Boil	Lublin (Lubelski)	10 g	15 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	15 g	5 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	22.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	whirlfloc t	1.2 g	Boil	10 min