Final & ICE Stargardzki Koziołek #1

- Gravity 16.6 BLG
- ABV ---
- IBU 23
- SRM **8**
- Style Traditional Bock

Batch size

- Expected quantity of finished beer 33.5 liter(s)
- Trub loss 5 %
- Size with trub loss 36.9 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 46.2 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 35.7 liter(s)
- Total mash volume 47.6 liter(s)

Steps

- Temp 64 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp 78 C, Time 2 min

Mash step by step

- Heat up 35.7 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 40 min at 64C
- Keep mash 20 min at 72C
- Keep mash 2 min at 78C
- Sparge using 22.4 liter(s) of 76C water or to achieve 46.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Munich Malt II	5.9 kg <i>(49.6%)</i>	78 %	
Grain	Weyermann - Pilsner Malt	4.9 kg <i>(41.2%)</i>	81 %	5
Grain	Biscuit Malt	0.35 kg <i>(2.9%)</i>	79 %	45
Grain	Melanoiden Malt	0.5 kg <i>(4.2%)</i>	80 %	39
Grain	Caraaroma	0.25 kg <i>(2.1%)</i>	78 %	320

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	50 g	60 min	8.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
w34/70	Lager	Slant	385 ml	Fermentis