Stare piwsko

- Gravity 13.8 BLG
- ABV 5.7 %
- IBU **37**
- SRM **6.3**
- Style Düsseldorf Altbier

Batch size

- Expected quantity of finished beer 27 liter(s)
- Trub loss 5 %
- Size with trub loss 28.4 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 34.2 liter(s)

Mash information

- Mash efficiency 72 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 28 liter(s)

Steps

- Temp 52 C, Time 20 min
 Temp 62 C, Time 30 min
 Temp 72 C, Time 20 min
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up 21 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 20 min at 52C
- Keep mash 30 min at 62C
- Keep mash 20 min at 72C
- Keep mash 2 min at 78C
- Sparge using 20.2 liter(s) of 76C water or to achieve 34.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.3 kg <i>(75.7%)</i>	90 %	5
Grain	Weyermann - Carapils	1 kg <i>(14.3%)</i>	85 %	4
Grain	Strzegom Wiedeński	0.3 kg <i>(4.3%)</i>	85 %	10
Grain	Strzegom Monachijski typ I	0.3 kg <i>(4.3%)</i>	85 %	16
Grain	Special B Malt	0.1 kg <i>(1.4%)</i>	85 %	315

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Strisselspalt	50 g	25 min	1.8 %
Boil	Tomyski	30 g	25 min	3.8 %
Boil	Strisselspalt	30 g	5 min	1.8 %
Boil	Magnum	25 g	45 min	13.5 %
Boil	Magnum	5 g	5 min	13.5 %
Whirlpool	Strisselspalt	20 g	5 min	1.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP090 - San Diego Super Yeast	Ale	Slant	500 ml	White Labs