xmilk

- Gravity 14.7 BLG
- ABV **6.1** %
- IBU 25
- SRM **34.3**
- Style Christmas/Winter Specialty Spiced Beer

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 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 62 C, Time 60 min
 Temp 77 C, Time 5 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 69C
- Add grains
- Keep mash 60 min at 62C
- Keep mash 5 min at 77C
- Sparge using 14.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg <i>(33.3%)</i>	80 %	5
Grain	Strzegom Czekoladowy ciemny	0.3 kg <i>(5%)</i>	68 %	1200
Grain	Caramel/Crystal Malt - 30L	2 kg <i>(33.3%)</i>	75 %	59
Grain	Colorado Honning Malt	1 kg <i>(16.7%)</i>	75 %	15
Grain	Strzegom pszenica prażona	0.2 kg (3.3%)	80 %	1000
Sugar	Milk Sugar (Lactose)	0.5 kg (8.3%)	76.1 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	25 g	60 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Spice	przyprawa do piernika	30 g	Boil	15 min
Spice	imbir	5 g	Boil	15 min
Spice	cynamon	10 g	Boil	15 min
Spice	goździki	5 g	Boil	15 min