Amarillo single hop

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **29**
- SRM **3.9**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 28.1 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.4 liter(s) / kg
- Mash size 17 liter(s)
- Total mash volume 22 liter(s)

Steps

• Temp 68 C, Time 70 min

Mash step by step

- Heat up 17 liter(s) of strike water to 75.1C
- · Add grains
- Keep mash 70 min at 68C
- Sparge using 16.1 liter(s) of 76C water or to achieve 28.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	ЕВС
Grain	Viking Pale Ale malt	5 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	20 g	60 min	9.5 %
Boil	Amarillo	20 g	15 min	9.5 %
Whirlpool	Amarillo	25 g	0 min	9.5 %
Dry Hop	Amarillo	35 g	4 day(s)	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	10 g	