APA SH Polaris

- Gravity 11.4 BLG
- ABV **4.6** %
- IBU **37**
- SRM **3.4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 4 %
- Size with trub loss 13 liter(s)
- Boil time **75 min**
- Evaporation rate 15 %/h
- Boil size 15.8 liter(s)

Mash information

- Mash efficiency 78 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 8.9 liter(s)
- Total mash volume 11.5 liter(s)

Steps

- Temp **64 C**, Time **40 min** Temp **72 C**, Time **40 min**
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 8.9 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 40 min at 64C
- Keep mash 40 min at 72C
- Keep mash 10 min at 76C
- Sparge using 9.5 liter(s) of 76C water or to achieve 15.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg <i>(78.4%)</i>	80 %	4
Grain	Pszeniczny	0.5 kg <i>(19.6%)</i>	80 %	4
Grain	Weyermann - Acidulated Malt	0.05 kg <i>(2%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Polaris	20 g	15 min	19 %
Aroma (end of boil)	Polaris	20 g	0 min	19 %
Dry Hop	Polaris	60 g	5 day(s)	19 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	30 ml	

Extras

Type	Name	Amount	Use for	Time
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Water Agent	gips piwowarski	2 g	Boil	60 min
Other	Witamina C	2 g	Bottling	