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

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg *(78.4%)*	80 %	4
Grain	Pszeniczny	0.5 kg *(19.6%)*	80 %	4
Grain	Weyermann - Acidulated Malt	0.05 kg *(2%)*	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	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	30 ml	---

Extras

Type	Name	Amount	Use for	Time

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

Water Agent	gips piwowarski	2 g	Boil	60 min
Other	Witamina C	2 g	Bottling	---