

## #14 APA Plis

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **46**
- SRM **5.4**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **27.8 liter(s)**
- Trub loss **2 %**
- Size with trub loss **28.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **32.1 liter(s)**

### Mash information

- Mash efficiency **68 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.6 liter(s)**
- Total mash volume **28.8 liter(s)**

### Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **21.6 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **32.1 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Best Ale Crisp	2 kg (27.8%)	82 %	6
Grain	Strzegom Monachijski typ I	1 kg (13.9%)	79 %	16
Grain	Strzegom Pilzneński	2.5 kg (34.7%)	80 %	4
Grain	Strzegom Wiedeński	1 kg (13.9%)	79 %	10
Grain	Pszeniczny	0.7 kg (9.7%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	nugget	50 g	50 min	8.7 %
Aroma (end of boil)	Centennial	15 g	0 min	10.5 %
Boil	Centennial	35 g	10 min	10.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	---