

## APA szymon

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- Gravity **11.9 BLG**
- ABV ---
- IBU **40**
- SRM **5.9**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.8 kg (95%)	85 %	7
Grain	Carahell	0.2 kg (5%)	77 %	26

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	20 g	60 min	10.5 %
Boil	amarillo	10 g	30 min	9.5 %
Aroma (end of boil)	Amarillo	10 g	5 min	9.5 %
Aroma (end of boil)	Citra	10 g	5 min	12 %
Aroma (end of boil)	Cascade	10 g	5 min	6 %
Aroma (end of boil)	Amarillo	4 g	0 min	9.5 %
Aroma (end of boil)	Citra	10 g	0 min	12 %
Aroma (end of boil)	Cascade	10 g	0 min	6 %
Whirlpool	Citra	10 g	5 min	12 %
Whirlpool	Simcoe	10 g	5 min	13 %
Aroma (end of boil)	Simcoe	5 g	0 min	13 %

### Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Dry	11.5 g	---