

## #16.c03 Wreżel SAILON AIPA 16,5blg

- Gravity **17.3 BLG**
- ABV **7.4 %**
- IBU **83**
- SRM **6.3**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **20.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **13.8 liter(s)**
- Total mash volume **19.4 liter(s)**

### Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **1 min**

### Mash step by step

- Heat up **13.8 liter(s)** of strike water to **71.6C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **12.4 liter(s)** of **76C** water or to achieve **20.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.11 kg (92.2%)	80 %	5
Grain	Karmelowy Jasny 30EBC	0.43 kg (7.8%)	75 %	30

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	20 g	30 min	15.5 %
Aroma (end of boil)	Equanot	20 g	20 min	13.1 %
Aroma (end of boil)	Centennial	20 g	0 min	10.5 %
Dry Hop	Citra	20 g	5 day(s)	12 %
Dry Hop	Amarillo	20 g	5 day(s)	9.5 %
Dry Hop	Equinox	20 g	5 day(s)	13.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	23 g	---