

IPA Mocno Chmielona

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU ---
- SRM **9.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **65 C**, Time **20 min**
- Temp **68 C**, Time **15 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **20 min** at **65C**
- Keep mash **15 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.5 kg (91.7%)	80 %	5
Grain	Strzegom Karmel 150	0.5 kg (8.3%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Mash	Lublin (Lubelski)	50 g	60 min	4 %
Mash	Sybilla	50 g	30 min	3.5 %
Mash	Marynka	50 g	15 min	10 %
Dry Hop	Lublin (Lubelski)	50 g	7 day(s)	4 %
Dry Hop	Sybilla	50 g	7 day(s)	3.5 %
Dry Hop	Marynka	50 g	7 day(s)	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
------	------	------	--------	------------

Safale US-05	Ale	Dry	10 g	Fermentis
--------------	-----	-----	------	-----------