

Morze Wkońcu - Made in Poland IPA [IPA]

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **86**
- SRM **4.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.6 liter(s)**
- Total mash volume **19.4 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale	4.2 kg (86.6%)	79 %	5
Grain	Pszeniczny	0.4 kg (8.2%)	85 %	5
Grain	Karmelowy Jasny 30EBC	0.25 kg (5.2%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	15 g	60 min	15.5 %
Boil	lunga	25 g	60 min	11 %
Boil	Puławski	30 g	15 min	6 %
Boil	Cascade PL	50 g	10 min	6 %
Boil	Oktawia PL	30 g	10 min	7.1 %
Dry Hop	Cascade	50 g	7 day(s)	6 %
Dry Hop	Chinook	30 g	7 day(s)	13 %