

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 % |