

# Oda do Imperialnego Nafciarza

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- Gravity **24 BLG**
- ABV **11 %**
- IBU **78**
- SRM **36**
- Style **Brown Porter**

## Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.2 liter(s) / kg**
- Mash size **19.1 liter(s)**
- Total mash volume **27.8 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Casle Malting Whisky Nature	4 kg (46%)	85 %	4
Grain	Viking Pale Ale malt	1.6 kg (18.4%)	80 %	5
Grain	Strzegom Monachijski typ II	1.5 kg (17.2%)	79 %	22
Grain	Żytni	1 kg (11.5%)	85 %	8
Grain	Fawcett - Pszeniczny Czekoladowy	0.4 kg (4.6%)	73 %	1001
Grain	Carafa III	0.2 kg (2.3%)	70 %	1034

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	50 g	60 min	15.5 %
Boil	East Kent Goldings	30 g	20 min	5.1 %
Boil	East Kent Goldings	30 g	10 min	5.1 %
Boil	Fuggles	30 g	20 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	33 g	Safale