

# czarny jasiek

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **35**
- SRM **43.3**
- Style **Oatmeal Stout**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.6 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **25.3 liter(s)**
- Total mash volume **33.2 liter(s)**

## Steps

- Temp **64 C**, Time **70 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **25.3 liter(s)** of strike water to **70.9C**
- Add grains
- Keep mash **70 min** at **64C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **28.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	2.7 kg (34.2%)	85 %	7
Grain	Weyermann - Pilsner Malt	1 kg (12.7%)	81 %	5
Grain	Słód owsiany Fawcett	1 kg (12.7%)	61 %	5
Grain	Weyermann - Carapils	0.5 kg (6.3%)	78 %	4
Grain	Caraaroma	0.3 kg (3.8%)	78 %	400
Grain	Weyermann - Chocolate Rye	0.4 kg (5.1%)	20 %	493
Grain	Weyermann - Chocolate Wheat	0.4 kg (5.1%)	74 %	788
Grain	Weyermann - Dehusked Carafo II	0.3 kg (3.8%)	70 %	837
Grain	Jęczmień palony	0.2 kg (2.5%)	55 %	985
Grain	Płatki owsiane	1.1 kg (13.9%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
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Boil	lunga	17 g	60 min	10.4 %
Boil	East Kent Goldings	45 g	20 min	5.8 %
Boil	East Kent Goldings	45 g	5 min	5.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	300 ml	Fermentis