# Cygański Grodzisz

- Gravity 7.8 BLG
- ABV ---
- IBU **26**
- SRM 19
- Style Grodziskie/Graetzer

### **Batch size**

- Expected quantity of finished beer 30 liter(s)
- Trub loss 10 %
- Size with trub loss 33 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 38 liter(s)

# **Mash information**

- Mash efficiency 72 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 18 liter(s)

#### **Steps**

- Temp **64 C**, Time **45 min** Temp **72 C**, Time **30 min**
- Temp 76 C, Time 10 min

# Mash step by step

- Heat up 13.5 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 45 min at 64C
- Keep mash 30 min at 72C
- Keep mash 10 min at 76C
- Sparge using 29 liter(s) of 76C water or to achieve 38 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg <i>(44.4%)</i>	81 %	4
Grain	Pszeniczny	1 kg (22.2%)	85 %	4
Grain	Casle Malting Whisky Nature	1 kg (22.2%)	85 %	4
Grain	Weyermann - Chocolate Wheat	0.2 kg <i>(4.4%)</i>	85 %	4
Grain	Briess - Dark Chocolate Malt	0.3 kg (6.7%)	60 %	827
Grain	Jęczmień palony	0 kg	55 %	985

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	20 g	60 min	11 %
Boil	Fantasia	20 g	15 min	4.3 %
Boil	Fantasia	20 g	5 min	4.3 %

#### **Yeasts**

Name Type	Form	Amount	Laboratory
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I MIII) Workhorse I I I I I I I I I I I I I I I I I I I	Mangrove Jack's M10 Workhorse	Ale	Dry	11 g	Mangrove Jack's
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