

## #066 Grodziskie

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- Gravity **7.3 BLG**
- ABV **2.8 %**
- IBU **26**
- SRM **2.6**
- Style **Grodziskie/Graetzer**

### Batch size

- Expected quantity of finished beer **20.5 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **17 %/h**
- Boil size **28.3 liter(s)**

### Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **15.2 liter(s)**
- Total mash volume **19 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **15.2 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **28.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Grodziskie pszeniczny wędzony dębem	3.8 kg (100%)	80 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kazbek	20 g	60 min	6.7 %
Boil	Kazbek	30 g	10 min	6.7 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11 g	Fermentis

### Extras

Type	Name	Amount	Use for	Time
Other	łuska ryżowa	500 g	Mash	60 min