

# Grodzisk

- Gravity **9 BLG**
- ABV **3.5 %**
- IBU **26**
- SRM **3.5**
- Style **Grodziskie/Graetzer**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

## Steps

- Temp **50 C**, Time **10 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **77 C**, Time **10 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **77C**
- Sparge using **18.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Grodziski pszoniczny wędzony dębem	3 kg (85.7%)	80 %	6
Grain	Pszoniczny	0.5 kg (14.3%)	85 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tomyski	30 g	60 min	3.3 %
Boil	Oktawia	30 g	15 min	7.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11.5 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc T	0 g	Boil	10 min

Other	Łuska ryżowa	100 g	Mash	0 min
Other	Glukoza (Butelkowanie)	160 g	Bottling	---