

# Gruchowa IPA

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- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **41**
- SRM **5.6**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

## Steps

- Temp **66 C**, Time **50 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (57.1%)	81 %	4
Grain	Monachijski	0.7 kg (20%)	80 %	16
Grain	Żytni	0.4 kg (11.4%)	85 %	8
Grain	Strzegom Wiedeński	0.2 kg (5.7%)	79 %	10
Grain	Castlemalting - Cara Clair	0.2 kg (5.7%)	78 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	13 g	60 min	12 %
Boil	Southern Passion	15 g	15 min	11.7 %
Boil	Southern Passion	20 g	1 min	11.7 %