

# Czerwone Irlandzkie

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **20**
- SRM **14.5**
- Style **Irish Red Ale**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.7 liter(s)**
- Total mash volume **22.2 liter(s)**

## Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **20 min**

## Mash step by step

- Heat up **16.7 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **20 min** at **78C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (54%)	80 %	5
Grain	Karmelowy Czerwony	1 kg (18%)	75 %	59
Grain	Jęczmień palony	0.06 kg (1.1%)	55 %	985
Grain	Weyermann - Melanoiden Malt	0.5 kg (9%)	81 %	53
Grain	Weyermann - Carared	1 kg (18%)	75 %	45

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	30 g	60 min	4.5 %
Boil	Fuggles	35 g	10 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	8.46 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Fining	Mech irlandzki	5 g	Boil	10 min