

# ris

- Gravity **24.3 BLG**
- ABV ---
- IBU **85**
- SRM **40**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **10 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **19 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.3 liter(s)**
- Total mash volume **31 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (51.6%)	81 %	4
Grain	Strzegom Pale Ale	1 kg (12.9%)	79 %	6
Grain	Pszeniczny	1 kg (12.9%)	85 %	4
Grain	Strzegom Karmel 300	0.25 kg (3.2%)	70 %	299
Grain	Caraaroma	0.25 kg (3.2%)	78 %	400
Grain	Oats, Malted	1 kg (12.9%)	80 %	2
Grain	Jęczmień palony	0.25 kg (3.2%)	55 %	985

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	80 g	60 min	10 %
Boil	Lublin (Lubelski)	30 g	30 min	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	100 ml	Fermentum Mobile