

## ris v3

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- Gravity **23.3 BLG**
- ABV **10.7 %**
- IBU **85**
- SRM **74.7**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **8 %**
- Size with trub loss **22.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **27.6 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **28.5 liter(s)**
- Total mash volume **39.9 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	6 kg (52.6%)	80 %	5
Grain	Monachijski	1.5 kg (13.2%)	80 %	16
Grain	Pszeniczny	0.5 kg (4.4%)	85 %	4
Grain	Płatki owsiane	0.4 kg (3.5%)	85 %	3
Grain	Strzegom Karmel 150	0.5 kg (4.4%)	75 %	150
Grain	Strzegom Karmel 600	0.5 kg (4.4%)	68 %	601
Grain	Carafa II	0.5 kg (4.4%)	70 %	812
Grain	Carafa III	0.5 kg (4.4%)	70 %	1034
Grain	Strzegom pszenica prażona	0.5 kg (4.4%)	70 %	1000
Grain	Jęczmień palony	0.5 kg (4.4%)	55 %	985

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Summit	50 g	50 min	17 %
Boil	Marynka	60 g	50 min	8 %