

RIS

- Gravity **29.1 BLG**
- ABV **14.3 %**
- IBU **27**
- SRM **93.2**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **24.8 liter(s)**

Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **3.9 liter(s)**
- Total mash volume **5.2 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Liquid Extract	Bruntal Pale Ale	3.4 kg (38.2%)	80 %	35
Liquid Extract	ekstrakt słodowy ciemny Bruntal	3.4 kg (38.2%)	90 %	621
Dry Extract	Browamator jasny	0.8 kg (9%)	80 %	20
Grain	Fawcett - Pale Chocolate	0.2 kg (2.2%)	71 %	600
Grain	Carafa	0.2 kg (2.2%)	70 %	664
Grain	Castle Cafe	0.2 kg (2.2%)	75.5 %	480
Grain	Słód owsiany Fawcett	0.4 kg (4.5%)	61 %	5
Grain	Jęczmień palony	0.3 kg (3.4%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Willamette	40 g	60 min	5 %
Boil	Sovereign	20 g	60 min	6.1 %
Boil	Willamette	10 g	15 min	5 %
Boil	Sovereign	10 g	15 min	6.1 %
Boil	Pioneer	10 g	15 min	8.8 %
Boil	Willamette	10 g	5 min	5 %
Boil	Fusion UK	30 g	5 min	4.57 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	23 g	Safale