

## #RIS 3

- Gravity **20.5 BLG**
- ABV ---
- IBU **61**
- SRM **69.6**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **32.9 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **29 liter(s)**
- Total mash volume **38.6 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **73 C**, Time **25 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **29 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **25 min** at **73C**
- Keep mash **10 min** at **78C**
- Sparge using **13.6 liter(s)** of **76C** water or to achieve **32.9 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	6 kg (53.8%)	80 %	4
Grain	Karmelowy żytni Strze	1.3 kg (11.7%)	75 %	600
Grain	Strzegom Karmel 300	0.8 kg (7.2%)	70 %	299
Grain	Strzegom Karmel 150	0.2 kg (1.8%)	75 %	150
Grain	Strzegom Czekoladowy ciemny	0.4 kg (3.6%)	68 %	1200
Grain	Jęczmień palony VM	0.35 kg (3.1%)	55 %	985
Grain	Carafa III	0.3 kg (2.7%)	70 %	1034
Grain	Strzegom Czekoladowy ciemny	0.3 kg (2.7%)	68 %	1200
Adjunct	Płatki owsiane	0.5 kg (4.5%)	60 %	3
Adjunct	Płatki żytnie	1 kg (9%)	60 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	30 g	60 min	15 %

Boil	Kent Goldings	30 g	60 min	4.4 %
Aroma (end of boil)	Sorachi Ace	15 g	10 min	12.3 %
Aroma (end of boil)	Falconer's Flight	15 g	10 min	10.3 %
Dry Hop	Falconer's Flight	15 g	7 day(s)	10.3 %
Dry Hop	Sorachi Ace	15 g	7 day(s)	12.3 %
Boil	Styrian Wolf	20 g	60 min	13.7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	22 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Flavor	Śliwka wedzona	200 g	Boil	30 min
Flavor	Śliwka wedzona	300 g	Secondary	7 day(s)
Flavor	Płatki mocno wedzone	20 g	Boil	60 min
Flavor	Płatki mocno wedzone	20 g	Secondary	7 day(s)
Flavor	Płatki Vaniliowe	20 g	Boil	60 min
Flavor	Płatki Vaniliowe	20 g	Secondary	7 day(s)
Flavor	Wiórki kokosowe, prażone i macerowane w whisky	200 g	Secondary	7 day(s)