

# RIS 2019

- Gravity **22 BLG**
- ABV **9.9 %**
- IBU **85**
- SRM **36.8**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **110 min**
- Evaporation rate **10 %/h**
- Boil size **27.2 liter(s)**

## Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **22.7 liter(s)**
- Total mash volume **31.7 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	6.62 kg (73%)	80 %	4
Grain	Monachijski	0.71 kg (7.8%)	80 %	16
Grain	Pszeniczny	0.2 kg (2.2%)	85 %	4
Grain	Caraaroma	0.33 kg (3.6%)	78 %	400
Grain	Carafa III	0.24 kg (2.6%)	70 %	1034
Grain	Weyermann - Chocolate Rye	0.24 kg (2.6%)	20 %	493
Grain	Jęczmień palony	0.24 kg (2.6%)	55 %	985
Grain	Płatki pszeniczne	0.24 kg (2.6%)	85 %	3
Grain	Płatki owsiane	0.244 kg (2.7%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zeus 2015	40 g	60 min	15.7 %
Boil	Columbus 2017	20 g	30 min	17.1 %
Boil	Zeus 2015	10 g	15 min	15.7 %
Boil	Columbus 2017	10 g	15 min	17.1 %
Boil	Columbus 2017	20 g	5 min	17.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM21 Odkrycie sezonu	Ale	Slant	200 ml	Fermentum Mobile