

## RIS barrel aged / Black session IPA

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- Gravity **22.7 BLG**
- ABV **10.3 %**
- IBU **63**
- SRM **36.6**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **35 liter(s)**
- Trub loss **1 %**
- Size with trub loss **36.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **41.6 liter(s)**

### Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **45.6 liter(s)**
- Total mash volume **60.8 liter(s)**

### Steps

- Temp **51 C**, Time **10 min**
- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

### Mash step by step

- Heat up **45.6 liter(s)** of strike water to **56.2C**
- Add grains
- Keep mash **10 min** at **51C**
- Keep mash **60 min** at **64C**
- Keep mash **1 min** at **78C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **41.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	12 kg (78.9%)	82 %	4
Grain	Viking Wheat Malt	2 kg (13.2%)	83 %	5
Grain	Fawcett - Pszeniczny Czekoladowy	1 kg (6.6%)	73 %	1001
Grain	Strzegom Czekoladowy ciemny	0.2 kg (1.3%)	68 %	1200

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	ctz	100 g	60 min	14.4 %