

# Ciemna Katarzyna

- Gravity **23.8 BLG**
- ABV **10.9 %**
- IBU **79**
- SRM **43**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.8 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **19 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.3 kg (66%)	80 %	5
Grain	Pszeniczny	0.5 kg (10%)	85 %	12
Grain	Wędzony bukiem Viking Malt	0.5 kg (10%)	82 %	10
Grain	Carafa II	0.2 kg (4%)	70 %	812
Grain	Jęczmień palony	0.2 kg (4%)	55 %	985
Grain	Strzegom Czekoladowy ciemny	0.1 kg (2%)	68 %	900
Grain	Cararuby 50EBC	0.2 kg (4%)	65 %	50

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	60 min	15.5 %
Boil	Simcoe	20 g	10 min	13.2 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M42 New World Strong Ale	Ale	Slant	1000 ml	Mangrove Jack's