

# Suchy Gruby

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **32**
- SRM **37.5**
- Style **Dry Stout**

## Batch size

- Expected quantity of finished beer **28 liter(s)**
- Trub loss **5 %**
- Size with trub loss **29.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **35.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

## Steps

- Temp **72 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **21 liter(s)** of strike water to **80.7C**
- Add grains
- Keep mash **60 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **21.4 liter(s)** of **76C** water or to achieve **35.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	5 kg (71.4%)	82 %	4
Grain	Viking Czekoladowy jasny	0.5 kg (7.1%)	68 %	400
Grain	Extra black	0.5 kg (7.1%)	65 %	1400
Grain	Płatki pszeniczne	0.5 kg (7.1%)	60 %	3
Grain	Caraaroma	0.5 kg (7.1%)	78 %	400

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M42 New World Strong Ale	Ale	Dry	10 g	Mangrove Jack's