# Natkowy Stout v2

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU **39**
- SRM **37.1**
- Style **Sweet Stout**

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 4 %
- Size with trub loss 21.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.5 liter(s)

## **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

#### **Steps**

- Temp **67 C**, Time **45 min** Temp **70 C**, Time **5 min** Temp **77 C**, Time **5 min**

- Temp 100 C, Time 45 min

## Mash step by step

- Heat up 17.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 45 min at 67C
- Keep mash 5 min at 70C
- Keep mash 5 min at 77C
- Keep mash 45 min at 100C
- Sparge using 13 liter(s) of 76C water or to achieve 25.5 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann Specjal W	1 kg (20%)	68 %	300
Grain	Abbey Malt Weyermann	2 kg (40%)	75 %	45
Grain	Caraaroma	1 kg (20%)	78 %	400
Grain	Weyermann - Pale Ale Malt	1 kg <i>(20%)</i>	85 %	7

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Oktawia	30 g	45 min	8.3 %
Boil	Sybilla	15 g	45 min	6.2 %
Aroma (end of boil)	Sybilla	15 g	15 min	6.2 %
Dry Hop	Falconer's Flight	15 g	7 day(s)	10.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
	''			,

Mangrove Jack's M15 Empire Ale	Ale	Dry	11 g	Mangrove Jack's
MID LINDIE AIE				