

# Stout z wiśniami

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **27**
- SRM **37**
- Style **Dry Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.4 liter(s)**
- Total mash volume **21.1 liter(s)**

## Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**

## Mash step by step

- Heat up **16.4 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	BESTMALZ - Bestt Pale Ale	3 kg (56.6%)	80.5 %	6
Grain	Monachijski	0.3 kg (5.7%)	80 %	16
Grain	Płatki owsiane	0.5 kg (9.4%)	60 %	3
Grain	Strzegom Czekoladowy 1200	0.2 kg (3.8%)	68 %	1202
Grain	Strzegom Karmel 150	0.2 kg (3.8%)	75 %	150
Grain	Jęczmień palony	0.5 kg (9.4%)	55 %	985
Sugar	laktoza	0.6 kg (11.3%)	--- %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	50 g	60 min	5.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	Fermentis