

# Imperial Whisky Stout

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- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **42**
- SRM **33.1**
- Style **Foreign Extra Stout**

## Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **20.2 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.5 liter(s)**
- Total mash volume **19.4 liter(s)**

## Steps

- Temp **68 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **80 C**, Time **5 min**

## Mash step by step

- Heat up **14.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **30 min** at **68C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **80C**
- Sparge using **10.6 liter(s)** of **76C** water or to achieve **20.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	2 kg (41.2%)	82 %	4
Grain	Casle Malting Whisky Nature	2 kg (41.2%)	85 %	4
Grain	Strzegom Karmel 600	0.25 kg (5.2%)	68 %	601
Grain	Strzegom Czekoladowy jasny	0.125 kg (2.6%)	68 %	400
Grain	Strzegom Czekoladowy ciemny	0.125 kg (2.6%)	68 %	1200
Grain	Caraaroma	0.25 kg (5.2%)	78 %	400
Grain	Carafa	0.1 kg (2.1%)	70 %	664

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	12 %
Boil	Challenger	15 g	60 min	6.1 %
Boil	Sybilla	15 g	15 min	5.5 %
Boil	Perle	15 g	15 min	5.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Flavor	Płatki dębowe	15 g	Secondary	14 day(s)