

stout 2

- Gravity **16.6 BLG**
- ABV **7 %**
- IBU **33**
- SRM **37.5**
- Style **American Stout**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **10 %**
- Size with trub loss **26.4 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **32.2 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **30.4 liter(s)**

Steps

- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **22.8 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **17 liter(s)** of **76C** water or to achieve **32.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ I	4 kg (52.6%)	79 %	30
Grain	Strzegom Monachijski typ II	2.5 kg (32.9%)	79 %	22
Grain	Caraaroma	0.5 kg (6.6%)	78 %	400
Grain	Czekoladowy bestmalz	0.3 kg (3.9%)	68 %	900
Grain	Jęczmień palony	0.1 kg (1.3%)	55 %	985
Grain	Strzegom Barwiący	0.2 kg (2.6%)	68 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum goryczkowy	30 g	60 min	11.5 %
Boil	East Kent Goldings aromat	30 g	15 min	4.5 %
Boil	Saaz (Czech Republic)	30 g	5 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
fm	Lager	Slant	100 ml	---