Dragon stout

- Gravity 15.9 BLG
- ABV 6.7 %
- IBU 45
- SRM **35.6**
- Style American Stout

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 5 %
- Size with trub loss 15.8 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp **52 C**, Time **10 min** Temp **65 C**, Time **60 min**
- Temp 72 C, Time 20 min

Mash step by step

- Heat up 15 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 60 min at 65C
- Keep mash 20 min at 72C
- Sparge using 9 liter(s) of 76C water or to achieve 19 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.1 kg <i>(42%)</i>	81 %	4
Grain	Strzegom Monachijski typ I	2 kg (40%)	79 %	16
Grain	Caramel/Crystal Malt - 120L	0.5 kg <i>(10%)</i>	72 %	400
Grain	Czekoladowy	0.4 kg (8%)	60 %	788

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	60 min	11 %
Aroma (end of boil)	Saaz (Czech Republic)	15 g	10 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale s04	Lager	Dry	11.5 g	

Extras

Туре	Name	Amount	Use for	Time
- 71				

Flatter	l	l = a	5 ''	
l Flavor	l Kawa	I 5() a	Boil	l 30 min
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