# czeski lezak tmavy

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **32**
- SRM 17.2

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- Boil time 60 min
- Evaporation rate 12 %/h
- Boil size 26.9 liter(s)

## **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 19.5 liter(s)
- Total mash volume 25.1 liter(s)

#### Steps

- Temp 52 C, Time 10 min
  Temp 63 C, Time 20 min
  Temp 72 C, Time 40 min

# Mash step by step

- Heat up 19.5 liter(s) of strike water to 56.6C
- Add grains
- Keep mash 10 min at 52C
- · Keep mash 20 min at 63C
- Keep mash 40 min at 72C
- Sparge using 13 liter(s) of 76C water or to achieve 26.9 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	2.5 kg <i>(44.8%)</i>	80.5 %	2
Grain	Monachijski	2.1 kg <i>(37.6%)</i>	80 %	16
Grain	Strzegom Karmel 150	0.5 kg <i>(9%)</i>	75 %	150
Grain	Carafa II	0.18 kg <i>(3.2%)</i>	70 %	812
Grain	Acid Malt	0.3 kg <i>(5.4%)</i>	58.7 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Premiant	25 g	60 min	8 %
Aroma (end of boil)	Saaz (Czech Republic)	15 g	30 min	4.5 %
Aroma (end of boil)	Saaz (Czech Republic)	30 g	10 min	4.5 %
Whirlpool	Saaz (Czech Republic)	20 g	0 min	4.5 %

### **Yeasts**

Name Typ	/pe	Form	Amount	Laboratory
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- 4	l .	G	466 1	
Lw34	Hager	l Slant	I 160 ml	tarmantic
W J +	Lagei	Sidiil	1 100 1111	TETTILETICIS