# Ćeský ležák tmavý

- Gravity 13.3 BLG
- ABV 5.5 %
- IBU 27
- SRM **28.5**
- Style **Schwarzbier**

#### **Batch size**

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 85 min
- Evaporation rate 10 %/h
- Boil size 28.9 liter(s)

#### **Mash information**

- Mash efficiency 87 %
- Liquor-to-grist ratio 3.2 liter(s) / kg
- Mash size 16.8 liter(s)
- Total mash volume 22.1 liter(s)

#### **Steps**

- Temp **51 C**, Time **10 min** Temp **62 C**, Time **30 min** Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up 16.8 liter(s) of strike water to 55.8C
- Add grains
- Keep mash 10 min at 51C
- Keep mash 30 min at 62C
- Keep mash 40 min at 72C
- Keep mash 5 min at 78C
- Sparge using 17.4 liter(s) of 76C water or to achieve 28.9 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.5 kg <i>(47.6%)</i>	80 %	4
Grain	Strzegom Monachijski typ I	2 kg (38.1%)	79 %	16
Grain	Strzegom Karmel 600	0.5 kg <i>(9.5%)</i>	68 %	601
Grain	Black (Patent) Malt	0.25 kg <i>(4.8%)</i>	55 %	985

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Premiant	30 g	60 min	6.6 %
Boil	Cascade PL	10 g	45 min	5.5 %
Boil	Saaz (Czech Republic)	15 g	15 min	4 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	22 g	Fermentis

## **Extras**

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	5 g	Boil	10 min