# żytnie mocne

- Gravity 15.9 BLG
- ABV 6.7 %
- IBU 27
- SRM **20.2**
- Style American Wheat or Rye Beer

### **Batch size**

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

# **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 11.7 liter(s)
- Total mash volume 15.6 liter(s)

#### **Steps**

- Temp **65 C**, Time **50 min** Temp **72 C**, Time **20 min**
- Temp 78 C, Time 2 min

# Mash step by step

- Heat up 11.7 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 50 min at 65C
- Keep mash 20 min at 72C
- Keep mash 2 min at 78C
- Sparge using 7.4 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	2.4 kg <i>(61.5%)</i>	80.5 %	2
Grain	Rye, Flaked	0.7 kg <i>(17.9%)</i>	78.3 %	4
Grain	Monachijski	0.5 kg <i>(12.8%)</i>	80 %	16
Grain	Strzegom Karmel 150	0.1 kg <i>(2.6%)</i>	75 %	150
Grain	Strzegom Karmel 600	0.1 kg <i>(2.6%)</i>	68 %	601
Grain	Strzegom pszenica prażona	0.1 kg <i>(2.6%)</i>	70 %	1000

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	15 g	60 min	4.5 %
Boil	East Kent Goldings	15 g	60 min	5.1 %
Boil	Fuggles	7 g	10 min	4.5 %
Boil	East Kent Goldings	7 g	7 min	5.1 %

# **Yeasts**

Name	Туре	Form	Amount	Laboratory
us 05	Ale	Dry	11.5 g	