# Alfons Milkshake Mango Pale Ale

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU **23**
- SRM **4.4**
- Style American Pale Ale

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 25 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 28.6 liter(s)

# **Mash information**

- Mash efficiency 65 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 23.1 liter(s)
- Total mash volume 29.7 liter(s)

### **Steps**

- Temp **63 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 10 min

# Mash step by step

- Heat up 23.1 liter(s) of strike water to 69.1C
- Add grains
- Keep mash 45 min at 63C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 12.1 liter(s) of 76C water or to achieve 28.6 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(75.8%)</i>	80 %	5
Grain	Pszeniczny	1 kg <i>(15.2%)</i>	85 %	4
Grain	Płatki owsiane	0.6 kg (9.1%)	60 %	3

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	10 g	60 min	16 %
Boil	Galaxy	10 g	15 min	16 %
Whirlpool	Galaxy	30 g	0 min	16 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
us-05	Ale	Slant	50 ml	

#### **Extras**

Туре	Name	Amount	Use for	Time
Flavor	Pulpa mango	3400 g	Secondary	6 day(s)

Flarian	1 - 1	175	D - 11	10
Havor	Laktoza	1 / 5 a	Boil	I 10 MIN
1 14 4 61	LaktoLa	±, 5 9	50	1 -0