Karmelowe na słodko

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **18**
- SRM 5.7

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 22.8 liter(s)
- Total mash volume 29.3 liter(s)

Steps

- Temp 66 C, Time 10 min
 Temp 72 C, Time 50 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 22.8 liter(s) of strike water to 72.6C
- Add grains
- Keep mash 10 min at 66C
- · Keep mash 50 min at 72C
- Keep mash 1 min at 78C
- Sparge using 15.4 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilsner (2 Row) Bel	4 kg (61.5%)	79 %	4
Grain	Strzegom Wiedeński	2 kg <i>(30.8%)</i>	79 %	10
Grain	Carared	0.5 kg <i>(7.7%)</i>	75 %	39

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	18 g	60 min	10 %
Boil	East Kent Goldings	15 g	10 min	5.1 %
Aroma (end of boil)	East Kent Goldings	15 g	0 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
US-04	Ale	Dry	11 g	