

# Chewbacca

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- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **14**
- SRM **17.2**
- Style **Dunkelweizen**

## Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **3 %**
- Size with trub loss **11.9 liter(s)**
- Boil time **70 min**
- Evaporation rate **20 %/h**
- Boil size **16.6 liter(s)**

## Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **12.3 liter(s)**
- Total mash volume **15.8 liter(s)**

## Steps

- Temp **45 C**, Time **15 min**
- Temp **53 C**, Time **10 min**
- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **12.3 liter(s)** of strike water to **48.6C**
- Add grains
- Keep mash **15 min** at **45C**
- Keep mash **10 min** at **53C**
- Keep mash **30 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **7.8 liter(s)** of **76C** water or to achieve **16.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ II	1.6 kg (45.7%)	79 %	22
Grain	Pszeniczny	1.6 kg (45.7%)	85 %	4
Grain	Special B Castle	0.3 kg (8.6%)	70 %	350

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lubelski	10 g	60 min	5 %
Boil	Lubelski	7 g	30 min	5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany (Starter)	Wheat	Liquid	55 ml	Fermentum Mobile