

# Czechman

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- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **30**
- SRM **4.2**
- Style **German Pilsner (Pils)**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **26.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

## Steps

- Temp **50 C**, Time **15 min**
- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **1 min**

## Mash step by step

- Heat up **15.6 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **15 min** at **50C**
- Keep mash **30 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **77C**
- Sparge using **15.7 liter(s)** of **76C** water or to achieve **26.1 liter(s)** of wort

## Fermentables

| Type  | Name              | Amount         | Yield | EBC |
|-------|-------------------|----------------|-------|-----|
| Grain | Pilzner czeski    | 4.9 kg (94.2%) | 80 %  | 4   |
| Grain | Monachijski barke | 0.3 kg (5.8%)  | 80 %  | 20  |

## Hops

| Use for   | Name              | Amount | Time   | Alpha acid |
|-----------|-------------------|--------|--------|------------|
| Boil      | Lublin (Lubelski) | 100 g  | 20 min | 4 %        |
| Whirlpool | Lublin (Lubelski) | 50 g   | 10 min | 4 %        |

## Yeasts

| Name | Type  | Form  | Amount | Laboratory |
|------|-------|-------|--------|------------|
| s-33 | Lager | Slant | 400 ml | ---        |

## Notes

- franekca.pl.tl  
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