

# Tonka stout

---

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **24**
- SRM **25.8**
- Style **Sweet Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **24.1 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.9 liter(s)**
- Total mash volume **24.3 liter(s)**

## Steps

- Temp **63 C**, Time **20 min**
- Temp **72 C**, Time **40 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **18.9 liter(s)** of strike water to **69.1C**
- Add grains
- Keep mash **20 min** at **63C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **10.6 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

## Fermentables

| Type  | Name                     | Amount        | Yield | EBC |
|-------|--------------------------|---------------|-------|-----|
| Grain | Weyermann - Pilsner Malt | 4 kg (74.1%)  | 81 %  | 5   |
| Grain | Strzegom Karmel 600      | 0.3 kg (5.6%) | 68 %  | 601 |
| Grain | Strzegom Czekoladowy 400 | 0.4 kg (7.4%) | 68 %  | 400 |
| Grain | Jęczmień palony          | 0.1 kg (1.9%) | 55 %  | 985 |
| Grain | płatki jęczmienne        | 0.1 kg (1.9%) | 60 %  | 4   |
| Grain | Weyermann - Carapils     | 0.5 kg (9.3%) | 78 %  | 4   |

## Hops

| Use for | Name                   | Amount | Time   | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil    | Columbus/Tomahawk/Zeus | 30 g   | 15 min | 15.5 %     |

## Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale  | Slant | 500 ml | Fermentis  |

## Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Type   | Name    | Amount | Use for | Time  |
|--------|---------|--------|---------|-------|
| Flavor | Tonka   | 200 g  | Boil    | 5 min |
| Flavor | laktoza | 500 g  | Boil    | 5 min |