

# Caracrystal@ stout

- Gravity **12.9 BLG**
- ABV ---
- IBU **31**
- SRM **27.2**
- Style **Dry Stout**

## 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 **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **29.7 liter(s)**

## Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **15 min**

## Mash step by step

- Heat up **23.1 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **40 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **15.2 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

| Type  | Name                            | Amount        | Yield | EBC |
|-------|---------------------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt            | 4 kg (60.6%)  | 80 %  | 7   |
| Grain | Barley, Flaked                  | 1 kg (15.2%)  | 70 %  | 4   |
| Grain | Briess - Caracrystal Wheat Malt | 0.6 kg (9.1%) | 78 %  | 108 |
| Grain | Briess - Chocolate Malt         | 0.5 kg (7.6%) | 60 %  | 690 |
| Grain | Briess - Extra Special Malt     | 0.5 kg (7.6%) | 73 %  | 256 |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Fuggles | 56 g   | 60 min | 5.9 %      |

## Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 11.5 g | Safale     |

## Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |            |     |      |        |
|--------|------------|-----|------|--------|
| Fining | Irish Moss | 5 g | Boil | 15 min |
|--------|------------|-----|------|--------|