

# Cocoa Chipotle FES

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **22**
- SRM **61.4**
- Style **Foreign Extra 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 **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

## Steps

- Temp **62 C**, Time **30 min**
- Temp **70 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **19.5 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **70C**
- Keep mash **10 min** at **76C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC  |
|-------|-----------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt        | 5 kg (76.9%)   | 80 %  | 5    |
| Grain | Strzegom Barwiący           | 0.25 kg (3.8%) | 68 %  | 1300 |
| Grain | Caraaroma                   | 0.25 kg (3.8%) | 78 %  | 400  |
| Grain | Strzegom Czekoladowy ciemny | 1 kg (15.4%)   | 68 %  | 1200 |

## Hops

| Use for    | Name               | Amount | Time   | Alpha acid |
|------------|--------------------|--------|--------|------------|
| First Wort | East Kent Goldings | 30 g   | 60 min | 5.1 %      |
| Boil       | East Kent Goldings | 20 g   | 15 min | 5.1 %      |

## Yeasts

| Name                 | Type | Form   | Amount  | Laboratory  |
|----------------------|------|--------|---------|-------------|
| Wyeast - British Ale | Ale  | Liquid | 1000 ml | Wyeast Labs |

## Extras

| Type  | Name     | Amount | Use for | Time   |
|-------|----------|--------|---------|--------|
| Spice | Chipotle | 30 g   | Boil    | 15 min |

|       |                 |       |      |        |
|-------|-----------------|-------|------|--------|
| Spice | Ziarna kakaowca | 100 g | Boil | 15 min |
|-------|-----------------|-------|------|--------|