

# Nu Zealand Pale Ale

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **43**
- SRM **5**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **21 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **12.5 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

## Fermentables

| Type  | Name              | Amount       | Yield | EBC |
|-------|-------------------|--------------|-------|-----|
| Grain | Strzegom Pale Ale | 5 kg (83.3%) | 79 %  | 6   |
| Grain | Caramel Pils      | 1 kg (16.7%) | 75 %  | 7   |

## Hops

| Use for             | Name          | Amount | Time     | Alpha acid |
|---------------------|---------------|--------|----------|------------|
| Boil                | Rakau (NZ)    | 25 g   | 30 min   | 10.7 %     |
| Boil                | Waimea        | 25 g   | 15 min   | 17 %       |
| Aroma (end of boil) | Pacifica (NZ) | 25 g   | 5 min    | 5.5 %      |
| Whirlpool           | Rakau (NZ)    | 10 g   | 20 min   | 10.7 %     |
| Whirlpool           | Waimea        | 10 g   | 20 min   | 17 %       |
| Whirlpool           | Pacifica (NZ) | 10 g   | 20 min   | 5.5 %      |
| Dry Hop             | Pacifica (NZ) | 15 g   | 4 day(s) | 5.5 %      |
| Dry Hop             | Waimea        | 15 g   | 3 day(s) | 17 %       |
| Dry Hop             | Rakau (NZ)    | 15 g   | 2 day(s) | 10.7 %     |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11 g   | Fermentis  |