

## P.40 - West Coast IPA 2

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- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **39**
- SRM **5.3**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **11 %/h**
- Boil size **29.5 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.1 liter(s)**
- Total mash volume **26.8 liter(s)**

### Steps

- Temp **64 C**, Time **60 min**
- Temp **76 C**, Time **1 min**

### Mash step by step

- Heat up **20.1 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **1 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

### Fermentables

| Type  | Name                      | Amount         | Yield | EBC |
|-------|---------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 5.7 kg (80.3%) | 85 %  | 7   |
| Grain | Chleb pszenny             | 1 kg (14.1%)   | 81 %  | 3   |
| Sugar | Glukoza                   | 0.4 kg (5.6%)  | 80 %  | 2   |

### Hops

| Use for   | Name      | Amount | Time     | Alpha acid |
|-----------|-----------|--------|----------|------------|
| Boil      | Idaho 7   | 30 g   | 20 min   | 14.1 %     |
| Whirlpool | Idaho 7   | 50 g   | 20 min   | 14.1 %     |
| Dry Hop   | Idaho 7   | 70 g   | 5 day(s) | 14.1 %     |
| Dry Hop   | El Dorado | 150 g  | 5 day(s) | 15 %       |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 23 g   | Fermentis  |

### Notes

- Woda do zacierania 21 L.
  - Kwas mlekowy - 3,4 ml
  - Chlorek wapnia (CaCl2) - 2,1 g
  - Gips piwowarski (CaSO4) - 3,6 g

- Sól epsom (MgSO<sub>4</sub>) - 3,2 g
- Woda do wyładzania 24 l
- Kwas mlekowy - 3,8 ml
- Chlorek wapnia (CaCl<sub>2</sub>) - 2,4 g
- Gips piwowarski (CaSO<sub>4</sub>) - 4,1 g
- Sól epsom (MgSO<sub>4</sub>) - 3,6 g

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