

Imperial Oak Orange&Coffee New Zealand Dark Grodziskie

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **23**
- SRM **25.5**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16 liter(s)**
- Total mash volume **21.4 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------------|----------------|-------|------|
| Grain | Grodziski pszeniczny wędzony dębem | 5 kg (93.5%) | 80 % | 5 |
| Grain | Weyermann - Dehusked Carafa III | 0.25 kg (4.7%) | 10 % | 1400 |
| Grain | Fawcett - Pszeniczny Czekoladowy | 0.1 kg (1.9%) | 10 % | 1001 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------|--------|--------|------------|
| Boil | lunga | 20 g | 60 min | 11 % |
| Whirlpool | Rakau (NZ) | 50 g | 20 min | 9.5 % |
| Whirlpool | Motueka | 50 g | 20 min | 7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

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

| | | | | |
|-------------|--------------------|------|-----------|----------|
| Finning | Irish Moss | 5 g | Boil | 10 min |
| Water Agent | gips | 4 g | Mash | 60 min |
| Flavor | Bitter Orange Peel | 25 g | Boil | 5 min |
| Flavor | Sweet Orange Peel | 25 g | Boil | 5 min |
| Flavor | Kawa | 50 g | Secondary | 1 day(s) |
| Flavor | Oak Chips | 40 g | Secondary | 5 day(s) |