

Grande niggero

- Gravity **30.2 BLG**
- ABV **15 %**
- IBU **83**
- SRM **92.3**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **10 %**
- Size with trub loss **17.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **20.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **26 liter(s)**
- Total mash volume **36.4 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **40 min**

Mash step by step

- Heat up **26 liter(s)** of strike water to **58.4C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **40 min** at **63C**
- Keep mash **40 min** at **72C**
- Sparge using **5.1 liter(s)** of **76C** water or to achieve **20.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 5 kg (46.9%) | 80 % | 5 |
| Grain | Pilzneński | 2 kg (18.8%) | 81 % | 4 |
| Sugar | Cukier | 0.25 kg (2.3%) | 100 % | 1 |
| Grain | Strzegom Karmel 600 | 1 kg (9.4%) | 68 % | 601 |
| Grain | Strzegom Czekoladowy ciemny | 1 kg (9.4%) | 68 % | 1200 |
| Grain | Jęczmień palony | 0.6 kg (5.6%) | 55 % | 985 |
| Grain | Strzegom Monachijski typ II | 0.8 kg (7.5%) | 79 % | 22 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil | Phoenix | 100 g | 80 min | 11 % |
| Aroma (end of boil) | East Kent Goldings | 50 g | 10 min | 5.1 % |
| Aroma (end of boil) | Saaz (USA) | 50 g | 1 min | 3.75 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--|-----------|------|--------|-----------------|
| Mangrove Jack's M42 New World Strong Ale | Ale | Dry | 20 g | Mangrove Jack's |
| bioferm champ | Champagne | Dry | 3 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------|----------------------|--------|-----------|-----------|
| Other | płatki dębowe whisky | 50 g | Secondary | 14 day(s) |