

## Dry Stout - pod RIS-a

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **29**
- SRM **32.5**
- Style **Dry Stout**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **18 %/h**
- Boil size **28.6 liter(s)**

### Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.35 liter(s) / kg**
- Mash size **16.4 liter(s)**
- Total mash volume **21.3 liter(s)**

### Steps

- Temp **62 C**, Time **70 min**
- Temp **70 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **16.4 liter(s)** of strike water to **68.3C**
- Add grains
- Keep mash **70 min** at **62C**
- Keep mash **10 min** at **70C**
- Keep mash **5 min** at **78C**
- Sparge using **17.1 liter(s)** of **76C** water or to achieve **28.6 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount         | Yield | EBC  |
|-------|-----------------------------|----------------|-------|------|
| Grain | Briess - Pale Ale Malt      | 3.6 kg (73.5%) | 80 %  | 7    |
| Grain | Monachijski                 | 0.3 kg (6.1%)  | 80 %  | 16   |
| Grain | Strzegom Karmel 600         | 0.3 kg (6.1%)  | 68 %  | 601  |
| Grain | Jęczmień palony             | 0.25 kg (5.1%) | 55 %  | 985  |
| Grain | Melanoiden Malt             | 0.2 kg (4.1%)  | 80 %  | 39   |
| Grain | Strzegom Czekoladowy ciemny | 0.15 kg (3.1%) | 68 %  | 1200 |
| Grain | Strzegom Czekoladowy jasny  | 0.1 kg (2%)    | 68 %  | 400  |

### Hops

| Use for | Name       | Amount | Time   | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil    | First Gold | 30 g   | 5 min  | 7.5 %      |
| Boil    | lunga      | 20 g   | 60 min | 11 %       |

### Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|  |     |     |      |                 |
|--|-----|-----|------|-----------------|
| Mangrove Jack's<br>M42 New World<br>Strong Ale | Ale | Dry | 10 g | Mangrove Jack's |
|--|-----|-----|------|-----------------|