

Whisky Stout

- Gravity **19.6 BLG**
- ABV **8.6 %**
- IBU **31**
- SRM **31**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **31.2 liter(s)**
- Total mash volume **41.6 liter(s)**

Steps

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

Mash step by step

- Heat up **31.2 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **10.9 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------------|---------------|-------|-----|
| Grain | Viking Wędzony torfem | 3 kg (28.8%) | 81 % | 7 |
| Grain | Viking Pale Ale malt | 1 kg (9.6%) | 80 % | 5 |
| Grain | Carawheat (GR) | 0.4 kg (3.8%) | 68 % | 79 |
| Grain | Strzegom Monachijski typ I | 1 kg (9.6%) | 79 % | 16 |
| Grain | Strzegom Monachijski typ II | 1 kg (9.6%) | 79 % | 22 |
| Grain | Strzegom Pilzneński | 2 kg (19.2%) | 80 % | 4 |
| Grain | Płatki owsiane | 0.8 kg (7.7%) | 60 % | 3 |
| Grain | Simpsons - Crystal Extra Dark | 0.8 kg (7.7%) | 74 % | 315 |
| Grain | Barwiący | 0.4 kg (3.8%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------------------------|---------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus PK | 33.33 g | 45 min | 15.2 % |

Yeasts

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

| | | | | |
|---------------------------|-----|-------|--------|------------------|
| FM13 Irlandzkie Ciemności | Ale | Slant | 100 ml | Fermentum Mobile |
|---------------------------|-----|-------|--------|------------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------------------------------|--------|-----------|----------|
| Flavor | Kostki dębowe macerowane w whisky | 100 g | Secondary | 7 day(s) |