

SpitFire (IPA)

- Gravity **14.4 BLG**
- ABV ---
- IBU **96**
- SRM **14.1**
- Style **English IPA**

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 **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **62 C**, Time **25 min**
- Temp **68 C**, Time **25 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16.5 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **25 min** at **62C**
- Keep mash **25 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **16.8 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Strzegom Monachijski typ I | 1 kg (18.2%) | 79 % | 16 |
| Grain | Strzegom Pale Ale | 4 kg (72.7%) | 79 % | 6 |
| Grain | Crystal | 0.5 kg (9.1%) | 79 % | 160 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------------|--------|----------|------------|
| Boil | Admiral | 25 g | 60 min | 14.3 % |
| Boil | Challenger | 25 g | 55 min | 7 % |
| Boil | Admiral | 25 g | 50 min | 14.3 % |
| Aroma (end of boil) | Kent Goldings | 25 g | 10 min | 5.5 % |
| Aroma (end of boil) | Kent Goldings | 25 g | 5 min | 5.5 % |
| Dry Hop | Kent Goldings | 40 g | 7 day(s) | 5.5 % |

Yeasts

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

| | | | | |
|--|-----|-----|------|-----------------|
| Mangrove Jack's M42 New World Strong Ale | Ale | Dry | 12 g | Mangrove Jack's |
|--|-----|-----|------|-----------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 3 g | Boil | 10 min |