

## APA na szybko

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **30**
- SRM **5.3**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.1 liter(s)**

### Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.3 liter(s)**
- Total mash volume **18.4 liter(s)**

### Fermentables

| Type    | Name                   | Amount         | Yield | EBC |
|---------|------------------------|----------------|-------|-----|
| Grain   | Viking Pale Ale malt   | 3.7 kg (80.4%) | 80 %  | 5   |
| Adjunct | Pszenica niesłodowana  | 0.5 kg (10.9%) | 75 %  | 3   |
| Grain   | Carared                | 0.25 kg (5.4%) | 75 %  | 39  |
| Grain   | Honey Malt             | 0.1 kg (2.2%)  | 80 %  | 7   |
| Grain   | Simpsons - Crystal Rye | 0.05 kg (1.1%) | 73 %  | 177 |

### Hops

| Use for   | Name       | Amount | Time   | Alpha acid |
|-----------|------------|--------|--------|------------|
| Boil      | Iunga      | 25 g   | 45 min | 9.5 %      |
| Boil      | Centennial | 25 g   | 5 min  | 8.5 %      |
| Whirlpool | Centennial | 40 g   | 0 min  | 10.5 %     |

### Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
| Us05 | Ale  | Dry  | 10 g   | Fermentis  |