

# APA Hopzoil i Forest

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- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **32**
- SRM **4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **60 liter(s)**
- Trub loss **5 %**
- Size with trub loss **63 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **75.9 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **39 liter(s)**
- Total mash volume **52 liter(s)**

## Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 11 kg (84.6%) | 80 %  | 5   |
| Grain | Płatki owsiane       | 1 kg (7.7%)   | 85 %  | 3   |
| Grain | Monachijski          | 1 kg (7.7%)   | 80 %  | 16  |

## Hops

| Use for   | Name                   | Amount | Time   | Alpha acid |
|-----------|------------------------|--------|--------|------------|
| Boil      | Columbus/Tomahawk/Zeus | 25 g   | 60 min | 15.5 %     |
| Boil      | Columbus/Tomahawk/Zeus | 50 g   | 20 min | 15.5 %     |
| Whirlpool | Styrian Dragon         | 100 g  | 0 min  | 7.2 %      |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 20 g   | Fermentis  |