

# APAcz

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **39**
- SRM **6.2**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **65 min**
- Evaporation rate **10 %/h**
- Boil size **19.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.2 liter(s)**
- Total mash volume **18.2 liter(s)**

## Steps

- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **14.2 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **9.8 liter(s)** of **76C** water or to achieve **19.9 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński  | 3 kg (74.1%)   | 80 %  | 4   |
| Grain | Viking Pale Ale malt | 0.5 kg (12.3%) | 80 %  | 5   |
| Grain | Weyermann - Carapils | 0.2 kg (4.9%)  | 78 %  | 4   |
| Grain | Viking Malt Cookie   | 0.1 kg (2.5%)  | --- % | 50  |
| Grain | Caramunich® typ I    | 0.25 kg (6.2%) | 73 %  | 80  |

## Hops

| Use for             | Name    | Amount | Time     | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil                | Idaho 7 | 20 g   | 40 min   | 12.7 %     |
| Boil                | Sabro   | 10 g   | 10 min   | 13.6 %     |
| Aroma (end of boil) | Sabro   | 10 g   | 2 min    | 13.6 %     |
| Dry Hop             | Sabro   | 65 g   | 5 day(s) | 13.6 %     |
| Dry Hop             | Idaho 7 | 30 g   | 5 day(s) | 12.7 %     |

## Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 11.5 g | ---        |

## Extras

| Type   | Name           | Amount | Use for | Time  |
|--------|----------------|--------|---------|-------|
| Fining | Mech Irlandzki | 5 g    | Boil    | 5 min |