

APA Palmer

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **33**
- SRM **5.6**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **10.5 liter(s)**
- Trub loss **10 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **13.9 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.9 liter(s)**
- Total mash volume **11.8 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|-----------------|-------|-----|
| Grain | Viking Pale Ale malt | 2.5 kg (84.7%) | 80 % | 5 |
| Grain | Monachijski | 0.35 kg (11.9%) | 80 % | 16 |
| Grain | Karmelowy 50 - Viking Malt | 0.1 kg (3.4%) | 79 % | 50 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------|---------|--------|------------|
| Boil | Centennial | 12.71 g | 30 min | 10.5 % |
| Boil | Cascade PL | 16.58 g | 15 min | 5.2 % |
| Whirlpool | Cascade PL | 16.58 g | 15 min | 5.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|----------|------------------|
| FM52 Amerykański Sen | Ale | Liquid | 22.11 ml | Fermentum Mobile |