

# Obywatel Kudłaty

- Gravity **28.9 BLG**
- ABV ---
- IBU **76**
- SRM **40**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss --- %
- Size with trub loss **20 liter(s)**
- Boil time **120 min**
- Evaporation rate --- %/h
- Boil size --- liter(s)

## Mash information

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

## Steps

- Temp **66 C**, Time **90 min**
- Temp **80 C**, Time **4 min**

## Mash step by step

- Heat up liter(s) of strike water to C
- Add grains
- Keep mash **90 min** at **66C**
- Keep mash **4 min** at **80C**
- Sparge using liter(s) of C water

## Fermentables

| Type    | Name                           | Amount       | Yield | EBC  |
|---------|--------------------------------|--------------|-------|------|
| Grain   | Strzegom Karmel 300            | 0.4 kg (4%)  | 70 %  | 300  |
| Grain   | Czekoladowy 400                | 0.2 kg (2%)  | 68 %  | 400  |
| Grain   | Pale Ale                       | 4 kg (39.6%) | 79 %  | 4    |
| Grain   | monachijski 1                  | 1 kg (9.9%)  | 78 %  | 18   |
| Grain   | Caraaroma                      | 0.5 kg (5%)  | 78 %  | 540  |
| Grain   | Jęczmień palony                | 0.4 kg (4%)  | 65 %  | 900  |
| Grain   | Weyermann - Carafa III Special | 0.1 kg (1%)  | 65 %  | 1400 |
| Grain   | CastleMalting Whisky Nature    | 2 kg (19.8%) | 85 %  | 3    |
| Grain   | Pszeniczny                     | 1 kg (9.9%)  | 82 %  | 4    |
| Adjunct | płatki owsiane                 | 0.5 kg (5%)  | 70 %  | 1    |

## Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Magnum            | 50 g   | 80 min | 11.2 %     |
| Boil    | Marynka           | 60 g   | 60 min | 7.5 %      |
| Boil    | Lublin (Lubelski) | 65 g   | 20 min | 3.2 %      |

## Yeasts

| Name        | Type | Form  | Amount | Laboratory |
|-------------|------|-------|--------|------------|
| Safale S-04 | Ale  | Slant | 700 ml | Safale     |

## Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Flavor | Płatki owsiane | 500 g  | Mash    | 70 min |

## Notes

- Weyermann - Carafa III Special, karmel 300 bo mam  
*May 9, 2015, 8:40 PM*