

dortmunder

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **34**
- SRM **8.3**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|----------------|--------------------------------|---------------|-------|-----|
| Liquid Extract | Bruntal ekstrakt słodowy jasny | 3.4 kg (100%) | 81 % | 26 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|--------|------------|
| Boil | Puławski | 30 g | 60 min | 8.1 % |
| Aroma (end of boil) | Perle | 20 g | 15 min | 6.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------|-------|-------|--------|------------|
| Saflager S-189 | Lager | Slant | 200 ml | Fermentis |