

# Śniadanko Mistrzów

- Gravity **18 BLG**
- ABV ---
- IBU **32**
- SRM **35.5**
- Style **Oatmeal Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **70 min**
- Evaporation rate **15 %/h**
- Boil size **25.9 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.3 liter(s)**
- Total mash volume **27 liter(s)**

## Steps

- Temp **67 C**, Time **70 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **20.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **12.4 liter(s)** of **76C** water or to achieve **25.9 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC  |
|-------|-----------------------------|----------------|-------|------|
| Grain | Strzegom Pale Ale           | 3.5 kg (51.9%) | 79 %  | 6    |
| Grain | Strzegom Monachijski typ I  | 1.5 kg (22.2%) | 79 %  | 16   |
| Grain | Strzegom Karmel 300         | 0.25 kg (3.7%) | 70 %  | 299  |
| Grain | Strzegom Czekoladowy ciemny | 0.2 kg (3%)    | 68 %  | 400  |
| Grain | Strzegom Czekoladowy ciemny | 0.1 kg (1.5%)  | 68 %  | 1200 |
| Grain | Oats, Flaked                | 1 kg (14.8%)   | 80 %  | 2    |
| Grain | Jęczmień palony             | 0.2 kg (3%)    | 55 %  | 591  |

## Hops

| Use for | Name   | Amount | Time   | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil    | Magnat | 30 g   | 70 min | 11.2 %     |

## Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|                                    |     |     |      |                 |
|------------------------------------|-----|-----|------|-----------------|
| Mangrove Jack's<br>M07 British Ale | Ale | Dry | 10 g | Mangrove Jack's |
|------------------------------------|-----|-----|------|-----------------|