SAN FRANCISCO

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **17**
- SRM **13**
- Style California Common Beer

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 3 %
- Size with trub loss 21.6 liter(s)
- Boil time 60 min
- Evaporation rate 14 %/h
- Boil size 28 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.2 liter(s) / kg
- Mash size 19.1 liter(s)
- Total mash volume 25.1 liter(s)

Steps

- Temp 68 C, Time 40 min
 Temp 78 C, Time 15 min

Mash step by step

- Heat up 19.1 liter(s) of strike water to 75.5C
- Add grains
- Keep mash 40 min at 68C
- Keep mash 15 min at 78C
- Sparge using 14.9 liter(s) of 76C water or to achieve 28 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale malt	5 kg (83.6%)	80 %	6
Grain	Cara-Pils/Dextrine	0.5 kg <i>(8.4%)</i>	75 %	5
Grain	Caramel/Crystal Malt - 300	0.48 kg <i>(8%)</i>	71 %	300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northern Brewer	12 g	60 min	9 %
Boil	Northern Brewer	12 g	15 min	9 %
Aroma (end of boil)	Centennial	5 g	2 min	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP001 - California Ale Yeast	Ale	Liquid	40 ml	White Labs