



YEAST NUTRIENT ADDITIONS

US/English Units

<i>Nutrient</i>	<i>Standard Addition per 1000 gal</i>	<i>YAN Contribution per lb/1000 gal</i>	<i>Addition Limits (lb/1000 gal)</i>	
			US	EU
Nutrifer Energy	0.4 - 1.2 lb	16 ppm	3	3.3
Nutrifer Arom	2.5 lb	22 ppm	3	3.3
Nutrifer Special	2.5 - 4.2 lb	19 ppm	5	5
Nutrifer Advance	1.7 - 3.3 lb	18 ppm	6	6.6
DAP (diammonium phosphate)	0.8 - 2.5 lb	25 ppm	8	8.3
Yeast Hulls	1.0 - 3.0 lb	2 ppm	3	3.3

Metric Units

<i>Nutrient</i>	<i>Standard Addition per h/L</i>	<i>YAN Contribution per 10 g/hL</i>	<i>Addition Limits (g/hL)</i>	
			US	EU
Nutrifer Energy	5 - 15 g	13 ppm	36	40
Nutrifer Arom	30 g	18 ppm	36	40
Nutrifer Special	30 - 50 g	16 ppm	60	60
Nutrifer Advance	20 - 40 g	15 ppm	72	80
DAP (diammonium phosphate)	10 - 30 g	21 ppm	96	100
Yeast Hulls	10 - 36 g	1.7 ppm	36	40

Any of these materials should be dispersed in water before mixing into juice.

- DAP: 2-4 lb/gallon of cold water
- Other nutrients: 1-2 lb/gallon of lukewarm water

Nutrient additions should be split between inoculation and no later than 1/3 sugar depletion for yeast uptake and storage early in the growth cycle. DAP should not be added until 24-48 hours after inoculation. The presence of alcohol later in the fermentation interferes with uptake of nitrogen compounds and other nutrients making late additions ineffective for yeast growth. Mid fermentation additions of complex yeast nutrients will contribute to yeast cell ethanol resistance.

Yeast hulls (essentially insoluble cell membranes) provide lipids and serve to bind autotoxic yeast metabolites and therefore can be added early or late in fermentations.

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The indications supplied are based on our current knowledge and experience, but do not relieve the user from adopting the necessary safety precautions.

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