

## **SUPERIOR QUALITY FEED FOR WHITELEG SHRIMP**





# **SAPPHIRE - SUPERIOR QUALITY FEED FOR WHITELEG SHRIMP**

- Sapphire is a superior quality shrimp feed range optimized for the production of Whiteleg shrimp under intensive farming conditions.
- It is available in 8 sizes, including mini-pellets, adapted to the different life stages and meeting the nutritional requirements of the Whiteleg shrimp.
- In order to maintain good pond water conditions while aiming at optimal performance, these diets include raw materials strictly selected for their digestibility, palatability and capacity to ensure a good pellet water stability.
- Sapphire therefore achieves low feed conversion ratio, and natural attractants are also added to stimulate the feed intake thus allowing the shrimp to reach its full growth potential.

## NUTRITION FACTS

Feed code	Feed form	Package (kg/bag)	Crude protein (% min)	Crude fat (% min)	Ash (% max.)	Fiber (% max.)	Moisture (% max.)
<b>Sapphire 1</b>	Crumble 18-25 mesh	2 bags x 5 kg	40	5	14	3	10
<b>Sapphire 2</b>	Pellet 1.0x1.5-2 mm	10	40	5	14	4	10
<b>Sapphire 3</b>	Pellet 1.2x1.5-3 mm	20	38	5	14	4	10
<b>Sapphire 4</b>	Pellet 1.4x2-4 mm	20	38	5	15	4	10
<b>Sapphire 5</b>	Pellet 1.6x2-4 mm	20	36	5	15	4	10
<b>Sapphire 6</b>	Pellet 1.8x2-4 mm	20	36	5	15	4	10
<b>Sapphire 7</b>	Pellet 1.8x3-5 mm	20	36	5	15	4	10
<b>Sapphire 8</b>	Pellet 2x3-5 mm	20	36	5	16	4	10





# SAPPHIRE FEEDING GUIDELINE FOR *LITOPENAEUS VANNAMEI*

## FEED QUANTITIES GIVEN FOR 100,000 SHRIMPS STARTING FROM PL10



Feed code	Day of culture	Body weight (g)	Feeding (kg/day)	Feeding tray (%)	Checking time
TB0	1	0.02	2.0		
	2	0.04	2.2		
	3	0.08	2.4		
	4	0.13	2.6		
	5	0.18	2.9		
SAPPHIRE 1	6	0.24	3.2		
	7	0.30	3.5		
	8	0.37	3.9		
	9	0.44	4.3		
	10	0.52	4.7		
	11	0.60	5.2		
	12	0.69	5.7		
	13	0.79	6.2		
SAPPHIRE 2	14	0.90	6.7		
	15	1.02	7.3		
	16	1.14	7.9		
	17	1.27	8.6		
	18	1.41	9.3		
	19	1.56	10.0		
	20	1.72	10.7		
	21	1.89	11.5		
SAPPHIRE 3	22	2.08	12.3	1,5	120
	23	2.28	13.1	1,5	120
	24	2.48	13.9	1,5	120
	25	2.69	14.7	2,0	120
	26	2.90	15.5	2,0	120
	27	3.12	16.3	2,0	120
	28	3.35	17.1	2,0	120
	29	3.58	17.9	2,0	120
SAPPHIRE 4	30	3.81	18.7	2,0	120
	31	4.05	19.6	2,0	120
	32	4.30	20.4	2,5	90
	33	4.55	21.2	2,5	90
	34	4.80	22.0	2,5	90
	35	5.06	22.8	2,5	90
	36	5.32	23.3	2,5	90
	37	5.58	23.9	2,5	90
	38	5.84	24.5	2,5	90

Feed code	Day of culture	Body weight (g)	Feeding (kg/day)	Feeding tray (%)	Checking time
	39	6.11	25.1	2,5	90
	40	6.38	25.7	3,0	90
	41	6.65	26.3	3,0	90
	42	6.92	26.9	3,0	90
	43	7.20	27.5	3,0	90
	44	7.48	28.1	3,0	90
	45	7.76	28.7	3,0	90
	46	8.04	29.2	3,0	60
	47	8.32	29.8	3,0	60
	48	8.61	30.4	3,0	60
SAPPHIRE 5	49	8.90	31.0	3,0	60
	50	9.19	31.5	3,0	60
	51	9.48	32.1	3,0	60
	52	9.77	32.6	3,0	60
	53	10.06	33.2	3,0	60
	54	10.35	33.7	3,0	60
	55	10.64	34.3	3,0	60
	56	10.93	34.8	3,0	60
	57	11.22	35.4	3,0	60
	58	11.51	35.9	3,0	60
	59	11.81	36.4	3,0	60
	60	12.11	37.0	3,0	60
	61	12.41	37.5	3,5	60
SAPPHIRE 6	62	12.71	38.0	3,5	60
	63	13.01	38.5	3,5	60
	64	13.32	39.0	3,5	60
	65	13.63	39.5	3,5	60
	66	13.94	40.0	3,5	60
	67	14.25	40.5	3,5	60
	68	14.56	41.0	3,5	60
	69	14.88	41.5	3,5	60
	70	15.20	42.0	3,5	60
	71	15.52	42.5	4,0	60
	72	15.84	43.0	4,0	60
	73	16.16	43.5	4,0	60
	74	16.48	43.9	4,0	60
	75	16.80	44.4	4,0	60
	76	17.13	44.9	4,0	60

Feed code	Day of culture	Body weight (g)	Feeding (kg/day)	Feeding tray (%)	Checking time
	77	17.46	45.3	4,0	60
	78	17.79	45.8	4,0	60
	79	18.12	46.3	4,0	60
	80	18.45	46.7	4,0	60
	81	18.78	47.2	4,0	60
	82	19.11	47.6	4,0	60
	83	19.43	48.0	4,0	60
	84	19.75	48.5	4,0	60
	85	20.07	48.9	4,0	60
	86	20.39	49.3	4,0	60
SAPPHIRE 7	87	20.71	49.8	4,0	60
	88	21.03	50.2	4,0	60
	89	21.35	50.6	4,0	60
	90	21.67	51.0	4,0	60
	91	21.99	51.4	4,0	60
	92	22.31	51.8	4,0	60
	93	22.62	52.2	4,0	60
	94	22.93	52.6	4,0	60
	95	23.24	53.0	4,0	60
	96	23.55	53.4	4,0	60
	97	23.86	53.8	4,0	60
	98	24.17	54.2	4,0	60
	99	24.48	54.6	4,0	60
SAPPHIRE 8	100	24.79	54.9	4,0	60
	101	25.10	55.3	4,0	60
	102	25.41	55.7	4,0	60
	103	25.72	56.0	4,0	60
	104	26.03	56.4	4,0	60
	105	26.34	56.7	4,0	60
	106	26.65	57.1	4,0	60
	107	26.96	57.4	4,0	60
	108	27.26	57.8	4,0	60
	109	27.56	58.1	4,0	60
	110	27.86	58.5	4,0	60
	111	28.16	58.8	4,0	60
	112	28.46	59.1	4,0	60

ADJUSTMENT OF THE FEED QUANTITY WITH FEEDING TRAYS	
No feed remaining	Increase the quantity of feed for the next meal by 5%
Remaining feed: < 5%	Keep the same quantity of feed for the next meal
Remaining feed: 5 - 10%	Decrease the quantity of feed for the next meal by 5%
Remaining feed: 10 - 25%	Decrease the quantity of feed for the next meal by 10%
Remaining feed: > 25%	Stop feeding for the next meal then start feeding again but decreasing the quantity by 50%. Increase to the normal feeding rate when all feed is consumed.

*\*Feeding frequency: 4 – 5 meals/day*



Skretting is the global leader in providing innovative and sustainable nutritional solutions for the aquaculture industry. Skretting is a wholly-owned subsidiary of Nutreco, a world leader in animal nutrition with headquarters located in the Netherlands. Skretting has production facilities in 19 countries on five continents, and manufactures and delivers high quality feeds from hatching to harvest for more than 60 species. The total annual production volume of feed is more than 2 million tonnes. The head office is located in Stavanger, Norway.

In Vietnam, Skretting is famous for producing superior-quality shrimp and fish feeds for several species, with 2 factories in Long An Province. As well as being a leading feed supplier in Vietnam, Skretting Vietnam also supplies specialty feeds for many major aquaculture operations around South Asia.

Skretting is ideally positioned to contribute towards greater sustainability in the aquaculture industry because of its global presence, its focus on innovation, its technical expertise and its commitment to highest standards of quality and safety.

Raw materials and quality control have always been central to Skretting's business. What sets Skretting apart is the consistency in delivering high performing products to farmers supported by renowned certificates such as: ISO 9001, HACCP, GlobalG.A.P, BAP, and Nutrace®.

Nutraceuticals is Skretting's company-wide management program that ensures feed-to-food safety and quality. It is internationally recognized and trusted by Skretting Vietnam's customers in Vietnam and throughout the world.





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