



## Kimiyagaran-e-Taghziyeh

Animal, Poultry and Aquatic Feed Production Complex

### Physical characteristics and analyses of shrimp feeds

Type of food / Analysis	Starter 0	Starter 1	Starter 2	Starter 3	Grower 1	Grower 2	Finisher
Protein%	40-42	40-42	40-42	40-42	38-40	38-40	38-40
Fat%	6-8	6-8	6-8	6-8	6-8	6-8	6-8
Crude fiber%	2-4	2-4	2-4	2-4	2-4	2-4	2-4
Maximum ash%	12	12	12	12	12	12	12
Maximum humidity	10	10	10	10	10	10	10
Food's size (mm)	0/3-0/5	0/5-1	1-1/5	1/5-1/7	1/7-1/9	1/9-2/1	2/2-2/4
Shrimp's size (g)	pl <sub>10</sub>	pl <sub>10</sub> -pl <sub>15</sub>	pl <sub>15</sub> -pl <sub>20</sub>	pl <sub>20</sub> -1gr	1-5gr	5-10gr	>10 gr
Daily feeding percentage	20-25	15-20	10-15	8-10	6-8	4-6	2-3
Daily feeding times	2-3	2-3	2-3	3-4	3-4	4-5	4-5

**Note 1:**

The mentioned tables are presented for instruction and may vary with the shrimps and farms conditions.

**Note 2:**

The feeding times are highly associated with the oxygen percentage and the farm water temperature.







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### **Kimiyagaran-e Taghziyeh**

After 15 years of working in the livestock, poultry, and aquatic animals industry, the managers of Kimiyagaran-e Taghziyeh Company planned to establish one of the most modern factories for the production of livestock, poultry, and aquatic animals' feed in 2005 to supply a part of Iran's requirements in this regard. The construction of the factory was completed in 2009, thus, the process of producing and supplying products into the market started in the same year. Kimiyagaran-e Taghziyeh factory is located on a land tract with an area of 20,000 m<sup>2</sup> in Shahr-e Kord industrial zone. This factory enjoys modern and advanced production equipment and well-equipped quality control, research, and development laboratory. Various types of feed are produced by the research and development team and the cooperation of proficient university professors. Then, they are examined and tested in the pilot and research farms. Finally, they go into mass production proportionate to the regional needs.

### **Shrimp Feed:**

The nutritionists in Kimiyagaran-e Taghziyeh Company supplied the following three groups of feed with respect to the nutrition physiology and requirements of shrimps:

- 1-Starter Stage Feed
- 2-Grower Stage Feed
- 3-Finisher Stage Feed

- One of the most important fields of management that affects shrimp farming is nutrition management. It influences other aspects of management, either directly or indirectly.
- Kimiyagaran-e Taghziyeh Company formulated the feed that meets the appropriate firmness and durability to prevent the feed from dissolving in water and becoming unavailable for the shrimp to eat.
- Taking into account that the mechanism of capturing food by shrimp is based on its sense of smell, the company should use good and high-quality raw materials such as fish meal, wheat flour, wheat bran, soybean meal, fish oil, supplements, vitamins, plus food attractants, etc. and create a long-lasting taste and smell in shrimp feed.
- The company took every measure to grind the feed pellets to an appropriate degree to increase the digestion and absorption efficiency and result in desirable growth considering the intestinal tract of shrimp is short and straight.
- In general, the high quality of shrimp feed together with a scientific and appropriate feeding schedule as well as using the required equipment helps accelerate shrimp's growth and increase its production through consuming minimum feed portion in shrimp farming. Given that, selecting shrimp feed carefully, controlling feeding, mechanizing the farms, plus reducing feed conversion ratio is essential in shrimp farming.