
Product Description: Platinum system catalyst

Product Item: Catalyst PTC-A & Crosslinker PTC-B.3

Key Features:

PT Curing Agent is a two-component addition molding curing agent, which has the characteristics of low curing temperature and fast vulcanization speed. Compared with traditional peroxide vulcanization systems, it has the advantages of environmental protection, high efficiency and odorless.

- No peculiar smell after PT curing
- High level of health and environmental protection, complies with ROHS
- Fast molding vulcanization speed, low molding temperature
- Excellent physical properties, stable dimensions, low shrinkage rate, tensile strength, tear strength and resilience of the molded product can be greatly improved.

Applications:

Molding and extrusion products of silicone rubber for industrial and civil use with Addition requirement.

Precautions for transportation, safety and storage:

- Components A and B are packed in plastic cans in sealed bags separately.
- Pay attention to seal and choose cold storage.
- It can be transported by general means of transportation. The products should be protected from rain and sun exposure and kept away from fire and heat source during transportation.

Technological process:

- When using the two-component curing agent, A&B component must be added to the rubber compound separately, the specific steps are as follows:
 - 1.First put the unpacked silicone rubber in the mixer and mix to soften. The color masterbatch additives can be added in this process.
 - 2.Add the B component of the two-component vulcanizing agent in a certain proportion to the softened rubber in the first step, and continue to mix until it is uniform.
 - 3.Then add the A component of the two-component vulcanizing agent in a certain proportion to the rubber compound that has completed the above steps, and after mixing to uniformity, it can be discharged for molding or extrusion process.
 - 4.The two components must follow the sequence of component B first and then component A during the mixing process.
 - 5.In the process of mixing the rubber compound with the PT curing agent, the roller of the open mill should be kept no more than 35°C. When the temperature exceeds, air-conditioning or cooling water should be installed to reduce the temperature.
 - 6.It is recommended that the molding curing temperature be 110°C -150°C, and the most suitable curing temperature should be determined according to the actual situation of the products.
 7. The recommended addition amount of PT curing agent for our 01 series and 09 series addition molding silicone rubber is shown in the following table:

Table 1 Addition proportion of PT curing agent for NE-01XX series silicone rubber products

Production Type	Dosage of PTC-A (%)	Dosage of PTC-B.3 (%)	Curing condition
NE-0130	0.4	0.8	130°C × 5min
NE-0140	0.4	0.8	
NE-0150	0.4	0.6	
NE-0160	0.4	0.6	
NE-0170	0.6	2.0	
NE-0180	0.6	2.0	

Table 2 Addition proportion of PT curing agent for NE-09XX series silicone rubber products

Production Type	Dosage of PTC-A (%)	Dosage of PTC-B.3 (%)	Curing condition
NE-0930	0.4	0.6	120°C × 5min
NE-0940	0.4	0.6	
NE-0950	0.6	0.8	
NE-0960	0.6	1.2	
NE-0970	0.6	2.0	
NE-0980	0.6	2.5	

Table 3 Addition proportion of PT curing agent for NE-98XX series silicone rubber products

Production Type	Dosage of PTC-A (%)	Dosage of PTC-B.3 (%)	Curing condition
NE-9830	0.4	0.6	120°C × 5min
NE-9840	0.4	0.6	
NE-9850	0.6	0.8	
NE-9860	0.6	1.2	
NE-9870	0.6	2.0	
NE-9880	0.6	2.5	

Table 4 Addition proportion of PT curing agent for NE-99XX series silicone rubber products

Production Type	Dosage of PTC-A (%)	Dosage of PTC-B.3 (%)	Curing condition
NE-9930	0.4	0.6	120°C × 5min
NE-9940	0.4	0.6	
NE-9950	0.6	0.8	
NE-9960	0.6	1.2	
NE-9970	0.6	2.0	
NE-9980	0.6	2.5	

Precautions:

- Avoid contact with substances containing nitrogen, phosphorus, sulfur and heavy metals, otherwise it will cause under-vulcanization.
- When mixing, the B component must be added first, and then the A component can be added. The A and B components cannot be mixed in advance and then added. Otherwise, self-sulfurization will occur.
- When the temperature of the rubber compound and the roller of the open mill is higher than 40°C, this product cannot be added, and it must be cooled down, otherwise self-vulcanization will easily occur.
- The rubber compound added with PT Curing Agent should be used up within 2 days.