

**Rubber Adhesion Promoter C-23**

Chemical Name		Cobalt Carboxylate	
CAS NO.		72432-84-9	
Synonym		Manobond 680 C, CoMEND A	
Revision Number	02	Date	01/12/2009
Specification			
Item	C-23		Test Method
Appearance(visual inspection)	Purple granule		
Mass percent of Cobalt %	22.5±0.50		GB/T 6730.53-2004
Insoluble matter in heptane %≤	8.0±1.0		HG/T 5678-2002
Loss on drying%≤	1.2		ASTMD 4571-02
Infrared spectrum (compared with the standard spectra)	Comparable		
Properties:			
Purple granule, and the density is 1.4-1.5 g/cm ³ , It is usually with sulfenamide accelerators.			
Application			
Cobalt carboxylates are widely used in the tire industry as rubber adhesion promoters. It can improve the bonding of rubber to steel in steel-belted radial tires and steel-reinforced conveyor belts and hoses. Cobalt carboxylates provide a highly rubber-soluble form of Cobalt that serves as a chemical adhesive, bonding with sulfur in both the vulcanized rubber and the brass coating of the steel cord. Improved heat-aged and humid-aged adhesion is significant benefits to be realized with Cobalt rubber adhesion promoters.			
Recommend Dosage			
It can be added into the rubber compound directly. It can be used alone, but also can be used with HRH system. And the general amount is 0.15-1.0phr.			
Storage			
It should be stored in the dry and cool place with good ventilation avoiding exposure of the packaged product to direct sunlight.			
Package			
Bag : 20kg/bag		Pallet(1.1*1.1): 600kg	