

**Manufacturer  
of Chemical  
Reagents for  
Mineral  
Processing**

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# JAM GROUP CO.

JAM Group Co., as the owner of three Chemical Manufacturing Factories, is one of the pioneer active companies in manufacturing of especial Mineral Processing Chemical Reagents in the Middle East.

JAM Group Co. is Manufacturer and Exporter of Sodium Sulphide 60% in forms of Yellow and Red Flakes.

Another mineral processing chemical reagent which is produced by JAM Group Co. is a substitution for Methyl Isobutyl Carbinol (MIBC), the famous Frother, which is called MIBC J-32.










Moreover, we managed to develop some other substitution liquid chemical reagents for other famous Activators and Collectors such as SIPX, PBX and PAX. These substitution chemical reagents have got even better performance than the original products, since their consumption rates are lower and also their caused recovery coefficient is higher.

In addition to the above-mentioned chemicals, we are a reliable source for supplying Caustic Soda, Zinc Sulfate Monohydrate, Sodium Silicate, Sodium Metabisulfite and Sodium Sulfite from our own factories.

It is notable that all the mentioned chemicals have been approved by several mineral processing plants in Iran and also several other countries such as Azerbaijan, Russia, Kazakhstan, Turkey, South Africa and Tunisia.

Moreover, JAM Group Co., is supplier of almost all common shapes and sizes of Grinding Steel Media which are used as grinding media in Ball Mills.

JAM Group Co. is eager to expand its collaborations with mineral processing plants, and to reach this purpose, we are ready to cooperate with the applicants by technical consultation and also sending enough samples.

		Products Names	Explanation	
Frother		<b>MIBC J-32</b> Substitution for Methyl Isobutyl Carbinol (MIBC)	JAM Group Co. has a self-developed Frother, which is called MIBC J-32 which could be used as a great substitution for regular MIBC. MIBC J-32 is effective in the flotation process of Copper, Gold, Lead, Zinc and even Coal which has been approved by many mineral processing plants in all over the world.	
		<b>Sodium Sulphide 60% Red &amp; Yellow Flakes</b>	Sodium Sulphide is used as an Activator to make the surfaces of intended minerals hydrophobic and sulphide. In the flotation process of Oxide Minerals, at first, the surface of the intended Oxide Mineral should be Sulphide by Sodium Sulphide, and then, the collector should be added to the mixture. Adding Sodium Sulphide, increases the efficiency of the collector and consequently the whole flotation process significantly.	 
Depressant (Activators)		<b>Zinc Sulfate Monohydrate</b>	Zinc Sulphate Monohydrate is one of the greatest depressants which is widely used in the flotation process of Copper-Zinc ores. Depressants are surfactants or inorganic electrolytes which enhance wetting properties of the minerals to make them hydrophile. This characteristics are fruitful in the flotation process where being hydrophilic or hydrophobic is crucial for minerals.	
		<b>Caustic Soda Flakes 98%</b>	Apart from numerous applications of Sodium Hydroxide (Caustic Soda) in several industries, it can play the role of Activator in some flotation processes.	
		<b>Sodium Silicate</b>	Sodium silicate, also known as "water glass", is used as a sulphide and non-sulphide gangue mineral dispersant, depressant and modifying reagent in grinding and flotation operations.	
		<b>Sodium Metabisulfite (SMBS)</b>	In the flotation of complex copper ores containing chalcopyrite in seawater, sodium metabisulfite (SMBS) has been widely used as a pyrite depressant.	
		<b>Sodium Sulfite</b>	Sodium Sulfite is used for the depression of pyrite during the flotation of copper-zinc ores. In addition, Na <sub>2</sub> SO <sub>3</sub> has been used as a pyrite depressant in the flotation of ores.	
		<b>SIPX 2309-T</b> Substitution for Sodium Isopropyl Xanthate (SIPX)	JAM Group Co. has a self-developed Collector, which is called SIPX 2309-T which could be used as a great substitution for regular SIPX.	
Collectors		<b>PBX 2304-T</b> Substitution for Potassium Butyl Xanthate (PBX)	JAM Group Co. has a self-developed Collector, which is called PBX 2304-T which could be used as a great substitution for regular PBX.	
		<b>PAX 2306-T</b> Substitution for Potassium Amyl Xanthate (PAX)	JAM Group Co. has a self-developed Collector, which is called PAX 2306-T which could be used as a great substitution for regular PAX.	
Grinding Media		<b>Forged &amp; Casting Balls</b>	Chrome Alloyed Cast Steel Balls, High Chrome Alloyed Steel Balls, Low Chrome Alloyed Forged Steel Balls, Aluminum Sphere and Half Sphere, Cylpebs and Boulpebs and etc. are all used in the grinding of mineral ores.	