



Additives That Matter



Introduction:

IRRH Specialty Chemicals India Limited has been producing plastics additives, lubricants and releasing agents with its indigenous technology and has been leading the specialty chemical market with its superior technical expertise.

Based on accumulated technical expertise and excellent research capability, we are creating new products for the 21st century. We always strive to provide our customers complete satisfaction and try to impress them with our innovative products and services, at all times. We, research and develop novel products and technology continuously. Also we promise to develop and provide quality solutions for your additive queries always.

With technical expertise from Irrh Specialty Chemicals Co. Ltd, S.Korea, Irrh Specialty Chemicals India Limited was founded in January 2010. Irrh Specialty Chemicals India Limited established its new manufacturing facility for Metallic Stearates, Polyamide waxes, PE Waxes and Oxidized PE waxes in Abu Road, Rajasthan, India in January 2012.



The Products :

1. Zinc Stearate:

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (Mesh)
ISC-500F	116-125	10.4-11.4	Max 0.5	Max 0.5	0.2-0.3	500 Mesh -99% Pass
ISC-1000	116~125	10.4~11.4	Max 0.5	Max 0.5	0.20~.03	350 Mesh - 99% Pass
ISC-500	116~125	10.4~11.4	Max 0.5	Max 0.5	0.20~.03	325 Mesh - 99% Pass
ISC-400	116~125	10.4~11.4	Max 0.5	Max 0.5	0.20~.03	325 Mesh -99% Pass
ISC-350	116-125	10.4-11.4	Max 1	Max 0.5	0.2-0.3	350 Mesh - 99% Pass

Environment: Biodegradable.

Toxicity: Zinc Stearate is non-toxic as per the following reference:
(U.S.A) FDA Title 21CFR 175.300-177.2600-182.8994
(EEC) Commission directive 90/128/EEC and further amendments.

Applications:

PVC Stabilizer	Synergic Stabilizer for Ba/Cd & Ca-Zn Stabilizer systems
Paint Industry	All Types of Sealer
Rubber, Polyurethane, Polyester Industry	Metal Release Agent
Playing Cards Industry	To Reduce Friction between Cards
Cosmetic Industry	Lubricant to Improve Texture
Metal Industry	Die Release Agent
Tyre Industry	As an activator for Die release agent

Packing Size: 20Kgs/Bag (Standard Packing Size).

2. Calcium Stearate:

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (200 Mesh)	Particle Size (325 Mesh)
IR-100	145~160	6.5~7.3	Max 0.5	3.0 Max	0.2~0.3	90% Pass	
ISC-100	145~160	6.5~7.3	Max 0.5	3.0 Max	0.28~0.38		90% Pass

Modified Calcium Stearate (IR-102):

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (200 Mesh)
IR-102	140~150	6~7	1 Max	3 Max	0.26	90% Pass

Environment: Biodegradable

Toxicity: Calcium Stearate is non-toxic as per the following reference:

(U.S.A) FDA Title 21CFR 172.863-177.2600-184.122g.

(EEC) Commission Directive 90/128/EEC and further amendments.

Applications:

Food Industry	Flow agents in Powders including some foods and surface conditioner in candies
Fabric Industry	Waterproofing Agent
Stationary Industry	Lubricant in Crayons & Pencils
Construction Industry	As waterproofing and used for efflorescence control
Paper Industry	Lubricant for providing gloss and fold cracking
Plastic Industry	Lubricant, Acid Scavenger, release agent
Pharmaceutical Industry	Tablet Mold release, Anti Tack Agent, Gelling agent

Packing Size: 20Kgs/Bag (Standard Packing Size).

3. Magnesium Stearate:

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (200 Mesh)
IR-300	120~135	4~5	1Max	Max 3.0	0.28	90% Pass

Modified Magnesium Stearate (IR-302) :

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (200 Mesh)
IR-302	120-135	3.5~4.5	2.0 Max	Max 3.0	0.28	90% Pass

Environment: Biodegradable

Toxicity: Magnesium Stearate is non-toxic as per the following reference:

(U.S.A) FDA Title 21CFR172.863-175.300

(EEC) Commission Directive 90/128/EEC and further amendments

Applications:

Pharmaceutical Industry	Used as Diluent in manufacturing tablets, capsules and powders.
Food Industry	Used for binding sugar in hard candies
Petrochemical Industry	Used as a lubricant

Packing Size : 20Kgs/Bag

4. Aluminium Stearate:

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (200 Mesh)	Particle Size (325 Mesh)
IR-800	160 Maximum	5.5 Maximum	8.0 Max	1.5Max	0.20~0.30	90% Pass	

Applications:

Petrochemical Industry	High Temperature resistance when used in Lubricants. Used for defoaming properties
Metal Industry	As lubricant for wire drawing
Paint Industry	For improving pigment suspension, water resistance and gloss.
Ink Industry	Used for thickening & suspension improving
Rubber Industry	Used for preventing stickiness.
Plastic Industry	Used for lubricant for Polyamides and Thermosetting plastics
Construction Industry	Used for improving water resistance

Packing Size: 15Kgs/Bag

5. Barium Stearate:

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (200 Mesh)	Particle Size (325 Mesh)
IR-400	200~210	19.5~20.5	2.0 Max	1.0 Max		90% Pass	

Packing Size: 20Kgs/Bag.

6. Lithium Stearate:

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size (200 Mesh)
IR-200	190~200	2.5Max	0.5 Max	2.0Max	0.1-0.25	90% Pass

Packing Size: 10Kgs/Bag.

7. Sodium Stearate:

Grades	Appearance	Moisture	FFA(%)	Melting Point (°C)	Particle Size (100Mesh)
IR-500	White Powder	Max 3	Max1.5	200-210	90% Pass



8. Potassium Stearate:

Grades	Appearance	Moisture	FFA
IR-561	White Powder	Max 6	2 Max

9. Hydrogenated Castor Oil (Powder Form):

Grades	Melting Point °C	Acid Value	Iodine Value	Hydroxyl Value	Saponification Value	Color in Gardner Scale	Particle Size (200 Mesh)
HCO (Powder Form)	85-87	3Max	Max 2.5	Min 155	175~183	Max 2	90% Min

Packing Size: 20Kgs/Bag.

10. Iscowax (Fatty Acid Bis-Amides):

Grades	Acid Value	Amine Value	Melting Point	200Mesh
Iscowax-C	Max 10	Max 2.5	141-143	90% Pass
Iscowax-C	Max 10	Max 2.5	141-143	Beads/Prills
Iscowax-OL	Max 10	Max 5	115-125	Powder
Iscowax-HF	Max 10	Max 5	135-145	90% Pass

Packing Size: 25Kgs/Bag.

11. PE-Wax (Iscowax) (Non- Oxidized):

Grades	Viscosity (cps/160°C)	Density (gm/cc)	Hardness, dmm	Melting Point	Acid Value
Iscowax-A	397	0.92	3.2	Max 110	Nil
Iscowax-ALH-1200	1200	0.92	2.5	107	Nil
Iscowax-AH 633	393	0.94	1.8	117	Nil
Iscowax-E	200	0.93	Max 5	105-110	Nil
LP Wax (Flakes)	200	0.93	Max 5	105-110	Nil

12. Oxidized PE wax:

Iscowax-O	200	0.93	Max 5	105	16
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Packing Size: 25Kgs/Bag.

13. IR-722- Glycerol Ester (GMS):

Grades	Acid Value	Saponification Value	Mono Glycerol (%)	Free Glycerol (%)	Melting Point (°C)	Particle Size
IR-722 (P)	2 Max	155-165	90 Min	2 Max	68-75	200 Mesh - Min 90% Pass

Packing Size: 15Kgs/ Box.

14. IR-724 (Glycerol Tri-Stearate):

Grades	Acid Value	Saponification Value	Iodine Value	Water Content (%)	Melting Point (°C)	Particle Size
IR-724 (P)	2 Max	186-192	2 Max	0.5 Max	55-65	200 Mesh- Min 90% Pass

Packing Size: 15Kgs/Box.

15. Non-Ionic Surfactants:

PEG 200, 300, 400, 600, 1500, 4000, 6000, 8000.

16. PEG Esters:

PEG Mono & Di-Stearates.

17. Polysorbates:

Polysorbate 20.

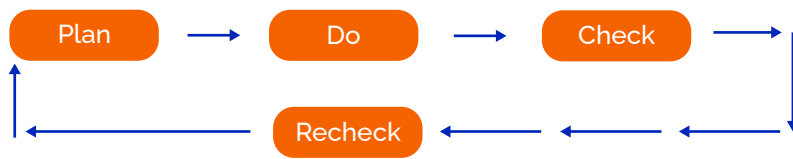
Polysorbate 60.

Polysorbate 80.



We understand the need for quality and we therefore strive to offer you quality products with prompt and friendly services. We maintain quality throughout the process and also have quality staff to assist our clients at various stages of their product development.

Quality Policy:



All products manufactured by us are of vegetable origin and certification such as Halal and Kosher is available.

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