

# *purified isophthalic acid*

## Sales Specifications of Purified Isophthalic Acid

Purified Isophthalic Acid (PIA) is produced using FHR's proprietary process where metaxylene is oxidized to isophthalic acid which is further purified by hydrogenation and water recrystallization. The resulting white, crystalline powder is a versatile, difunctional aromatic acid (1,3-benzenedicarboxylic acid) with a typical acid number of  $675 \pm 2$  mg KOH/g.

PIA can be reacted to form esters, amides, salts, acid chlorides, and other organic intermediates. Its high purity makes it especially beneficial in the preparation of low color, saturated and unsaturated polyesters, engineering resins, and copolymer PET resins. Derivatives of PIA are used in thermoset composites, paints and coatings, bottle and fiber resins, adhesives, and many other end uses.

Table 1 lists the PIA sales specifications.

**Table 1: PIA Sales Specifications**

Ash (AM 45)	15 ppm max.
Metals (AM 47)	
calcium	2 ppm max.
chromium	2 ppm max.
cobalt	1 ppm max.
iron	2 ppm max.
manganese	1 ppm max.
nickel	1 ppm max.
potassium	2 ppm max.
sodium	2 ppm max.
3- carboxybenzaldehyde (AM 62)	25 ppm max.
Metatoluic acid (AM 62)	150 ppm max.
Moisture (AM 11)	0.1 wt% max.
Color, b*-value (AM 13)	2.0 max.
Isophthalic acid (AM 18)	99.9 wt% min.



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## Shipping and handling information

PIA is available in either 1,000 kg or 500 kg fabric bags or 50 pound kraft bags. The bags are shipped on disposable, heat-treated wooden pallets. Pallets are 40 by 44 inches, 2-way entry for fabric bags and 42 by 48 inches, 4-way entry for Kraft bags. A description of pallet loads is given in Table 2.

Please contact your FHR sales representative to help you select the type of packaging that will best suit your needs.

**Table 2: weight of PIA pallet loads**

	<b>Kraft Bag</b>	<b>Fabric Bags</b>	
Weight per bag, net	50 lb	1,000 kg	500 kg
Bags per pallet	45	1	2
Weight per pallet, net	2,250 lb	1,000 kg	1,000 kg

## Samples

Samples will be sent on request. The normal sample is 1 kilogram (2 pounds). It is furnished for illustrative purposes only and shall not be the basis of any additional warranties.

## Health and safety information

The product(s) described herein may require precautions in handling and use. Material Safety Data Sheets (MSDS) for FHR products are available by calling 1-866-400-4343 (Toll free in U.S.) or via email at [msdsrequest@fhr.com](mailto:msdsrequest@fhr.com). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

## Regulatory Information

The product and uses described herein may require

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global product registrations and notifications for chemical inventory listings, or for use in food contact applications or medical devices.

For additional information, samples, pricing and availability, please contact:

### **Flint Hills Resources**

#### **Sales Administration and Customer Service**

##### **Europe**

+41 91 910 4111

Fax Number +41 91 910 4110

[fhrchemorders.eam@fhr.com](mailto:fhrchemorders.eam@fhr.com)

##### **US and Canada**

(866) 400-4343

Fax Number (316) 828-6726

[fhrchemorders.americas@fhr.com](mailto:fhrchemorders.americas@fhr.com)

##### **Central and South America**

(206) 337-2004 (Direct Dial Seattle Number)

Fax Number (316) 828-6726

##### **Asia**

+852 2734 1082

Fax Number +852 2734 1717

### **Flint Hills Resources Headquarters**

Flint Hills Resources, LP

P.O. Box 2917

Wichita, KS 67201 USA

4111 East 37<sup>th</sup> St. N.

Wichita, KS 67220 USA