

IRON325ZV is a high purity, fine, magnetic iron powder with free-flow particles. It forms a smooth paste when mixed with resins, waxes or binders. Applications include magnetic powder (in magnetic clutches and breaks), magnetic ink, magnetic paste, magnetic rubber articles, magnetic plastic articles.

CAS No.: 7439-89-6

EC No.: 231-096-4

INCI Name: IRON POWDER

INCI Statement: Iron powder is the element consisting of powdered metallic iron.

TYPICAL PHYSICAL PROPERTIES

Apparent Density	2.8 to 3.0 g/cm ³
Flow rate (Hall)	30 s/ 50 g

TYPICAL SCREEN ANALYSIS

SIEVE ANALYSIS (ASTM E-11)	Typical	Specification	
		Min	Max
+150 Micron	0.0 %		0.0 %
75-150 Micron	0.3 %		2.0 %
63-75 Micron	1 %		---
45-63 Micron	12 %		18.0 %
- 45 Micron	87 %	80%	

TYPICAL CHEMICAL ANALYSIS

	Typical	Min	Max
Iron content	99.7 %	99%	
Carbon	0.00 %		0.01%
Oxygen	0.09 %		0.13%

All values indicate the elemental form or in alloy form. Ionic forms are all zero including the iron.

PACKAGING AND SHELF LIFE

IRON325ZV is available in 55-lb (25 kg) plastic pails. Standard pallet quantity contains 30 pails on a pallet totaling 1650 lbs. (750 kg). The recommended shelf life of IRON325ZV in sealed plastic pails is 6 years while stored in low light, dry, room temperature storage.

TYPICAL APPLICATIONS

Narrow particle distribution and dense free flow particles make IRON325ZV an excellent choice for manufacturers who need a reliable high quality magnetic iron powder. This product easily blends with varieties of aqueous fluids, as well as oils, alcohols, resins and polymers. Adding sufficient amounts of IRON325ZV to plastics and rubber products make them attractable to magnets and detectable by metal detectors.

USE RESTRICTIONS

IRON325ZV is offered only for research and manufacturing use. Prohibited applications include manufacturing fire-works, Tannerite (explosive target), loose fill in toys and household goods. This product may not be used as food or feed additive, it does not contain absorbable nutrient iron and it contains dense particles that may cause tooth damage.

DISCLAIMERS

All information, recommendations and suggestions in this document are based on sources believed to be reliable; however, it is the user's responsibility to determine safety, toxicity and suitability of this product in their own application.

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