

Ferrazone® XF

Chemical Name Sodium iron (III) ethylenediaminetetraacetate
Ferric sodium EDTA

Chemical Formula EDTA-FeNa . 3H₂O

Mol. Weight 421.1 (trihydrate)

CAS Number 15708-41-5 (anhydrous)
18154-32-0 (trihydrate)

Specifications	Checkpoint	Specification	Units	Method
	Appearance	Light-yellow to yellow-brown powder		FCC
	Odor	Odorless		FCC
	Iron content	13.0 – 13.5	%	FCC
	EDTA-H ₄ content	67.5 – 71.5	%	FCC
	pH of a 1% w/v aqueous solution	4.5 – 5.5		FCC
	Identification by IR	Pass		FCC
	Water-insoluble matter	0.1 max	%	FCC
	Nitrilotriacetic acid	0.1 max	%	FCC
	Arsenic	1 max	mg/kg	FCC
	Lead	1 max	mg/kg	FCC
	Chloride	600 max	mg/kg	FCC
	Loss on drying	12.5 – 13.5	%	FCC
	Sulfate	0.06 max	%	FCC
	Free Iron	0.05 max	%	FCC
	Absorbance	0.240 max	AU	FCC
	Particle size through 100 mesh (US) sieve	100	%	SMA 721.38

Ferrazone® XF is widely approved for food fortification.
Manufacturing is certified according to HACCP (option A) and FS22000.

Main Characteristics Ferrazone® XF is a stable, light-yellow powder

Solubility in water : approx. 90 g/l water (20°C)
: approx. 120 g/l water (30°C)
: approx. 300 g/l water (70°C)
Bulk density untapped (poured) : approx. 500- 700 kg/m³
Bulk density tapped : approx. 900-1100 kg/m³

Applications Food fortification

Environmental aspects Inherently biodegradable
COD: approx. 570 mg/g



Ferrazone[®] XF

Packing	For information on possible packing types and sizes, please contact your nearest AkzoNobel representative.	
Storage	Store in original packing at a dry place. Opened bags must be closed again properly. It is advised to re-test the material after three years of storage	
Further Information	For transport, handling and first aid instructions, please refer to the Safety Data Sheet, which is available on request. For samples, technical service and further information, please contact your nearest AkzoNobel representative or:	
Internet	www.ferrazone.com	
Addresses	Europe, Middle East and Africa Akzo Nobel Functional Chemicals B.V. Stationsstraat 77 P.O. Box 247 3800 AE Amersfoort The Netherlands T: +31 33 46 76 341 E: eur@ferrazone.com	North, Central and South America Akzo Nobel Functional Chemicals LLC 525 W. van Buren Street Chicago, Illinois 60607 U.S.A. T: Inside U.S.A. +1 800 906 7979 T: Outside U.S.A. +1 312 544 7000 E: nam@ferrazone.com
	Asia Pacific Akzo Nobel Chemicals (Ningbo) Co. Ltd. Shanghai Branch 22F, Eco City No. 1788 West Nan Jing Road Shanghai 200040 P.R. China T: +86 21 2220 5000 E: ap@ferrazone.com	

