



FLOZEIN PRODUCTS

a Flo Chemical Corporation company

FloZein™ (prolamine derived from IP Corn) FloZein F4400C Series - Non-GMO TECHNICAL SPECIFICATION

	Food Grade	Pharmaceutical Grade
Country of Origin:	USA	
Description:	FloZein F4400C: Straw to yellow colored granular powder, bland in taste/aroma	
	F4401C/F4402C/F4405C : Buff to pale yellow colored granular powder, bland in taste/aroma	N/A
CAS Number:	9010.66.6	
Identification Tests:	Positive for Tests A, B, and C (SDS-Polyacrylamide Gel Electrophoresis) according to current USP/NF monograph.	
Solubility in Water:	Insoluble	
Solubility in 75-80% alcohol/water solution at 37°C	1 gm of Zein to 10ml of the solution produces a clear to cloudy solution.	
Protein:	81.9 – 100%, calculated on a dry basis.	
Nitrogen:	13.10 – 16.00%	
Loss on Drying:	8% maximum, drying for 2 hrs at 105°C.	
Residue on Ignition:	NMT 2% per USP <281> using ignition temp of 800°C ±25°	
Organic Impurities, Limit of Hexane- Soluble Matter:	N/A	No more than 12.5%
Microbial Limits:		The total bacterial count does not exceed 1000 cfu/gm, and the tests for Salmonella species and E.Coli are negative
Residual Solvent (alcohol):		As specified in USP<467>
Heavy Metals:		As specified under current version of “Heavy Metals” USP, Method II
Standard Packaging:		25 kg (55.12 lbs) net in poly bag/double walled corrugated carton
Shelf Life:	5 years	
Storage:	Store in well-closed containers at room temperature	

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World Leading Producer of Zein

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