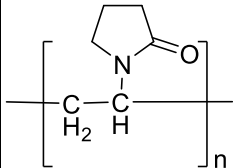


Technical Data Sheet

Starclear XL

1. IDENTIFICATION OF THE SUBSTANCE		
Product Name	Starclear XL	
Chemical Name	Crospovidone, Polyvinylpolypyrrolidone (PVPP)	
Structure Formula		
Molecular Formula	$(C_6H_9NO)_n$	
CAS-No.	25249-54-1	
Product Applications	Good filtration auxiliary in the clarification of beer, wine and fruit juice	
2. PHYSICAL AND CHEMICAL PROPERTIES		
Characteristics	Specification	Test Reference
Appearance	White to off-white powder with faint characteristic odor	E1202, FCC
FCC Identification	There should be no blue generation	FCC
Particle Size (D50), μm	60~120	SSP method (Malvern 3000)
Swelling volume, l/kg	≤ 6.0	Ph. Eur.
Water, %	≤ 6.0	E1202, FCC
pH(1% suspension in water)	5.0~8.0	E1202, FCC
Water-soluble substances, %	≤ 0.5	E1202, FCC
Acid/Alcohol soluble substances, %	≤ 1.0	FCC
Heavy metals, ppm	≤ 10	Ph. Eur.
Lead, ppm	≤ 2	E1202, FCC

Arsenic, ppm	≤2	SSP method
Sulfated ash, %	≤0.4	E1202, FCC
Assay, as Nitrogen content, %	11.0~12.8	E1202, FCC
NVP, ppm	≤10	E1202, FCC
3. PACKAGE AND STORAGE		
Package	20kg square drum or 20kg round shaped drum, inner lined with 2 PE bags	
Chemical Stability	Stable under normal conditions	
Storage	Store in tight containers	
Re-evaluation Date	36 months	
4. OTHER INFORMATION		
Important Note	SSP recommends that customers independently test and evaluate their products and processes in which SSP products are used in order to decide their effectiveness	