

Certificate of Analysis

CDS Filter Aid 400 (Model #: FAID400)

CDS Product ID: 98-0503-0076-7

Certificate Date: 03/04/2025

CDS Lot #'s: CLS-072921

General Product Information						
Product	Particle Size Distribution*			Bulk Density* (lbs/cu. ft.) ASTM D-3101-78		Oil Absorption* (g oil/100g. spheres) ASTM D-1483
	Mean Value (microns)	Range (microns)	US Mesh Size	Untapped	Tapped	
FAID400	30 – 50	-	- 325	90	99	18

*Typical Values

PROPERTIES

TYPICAL VALUES

FAID400 Soda-Lime

Physical:

Specific Gravity	2.5
Refractive Index	1.51
Free Iron Content, % max	0.1

Mechanical:

Young's Modulus, 10 ⁶ psi	10.0
Rigidity Modulus, 10 ⁶ psi	4.3
Hardness (Moh)	6.0
Coefficient of Friction	0.9-1.0

Electrical:

Dielectric Constant, 22°C, 10 ⁶ Hz	6.9
Loss Tangent, 22°C 10 ⁶ Hz	0.0085
Vol. Resistivity, 25°C, ohm-cm	6.5 x 10 ¹²

Thermal:

Softening Point, °C	704
Expansion Coefficient, in/in/°C X 10 ⁻⁷	90
Thermal Conductivity (cal/(sec)(cm ²)(°C/cm) at 500°C)	0.0036

Composition %:

	A-Glass
SiO ₂ *	72.5
Na ₂ O	13.7
CaO	9.8
MgO	3.3
Al ₂ O ₃	0.4
FeO/Fe ₂ O ₃	0.2
K ₂ O	0.1
B ₂ O ₃	0.0

* No measurable free crystalline silica content as tested by ASTM C-169

Hydrolytic Leach Resistance**:

Leachate pH	9.4
Leach Conductivity, (mmho/cm)	101.0
Leach Concentrations, (mg/cc)	
Total Alkali	25.7
Calcium	18.1
Boron	Trace
Silica	5.4

** One hour boil under reflux with deionized water

This is to certify that the material shipped on this order is in conformance with CDS specifications.

CDS Company Quality Assurance G. Katsikodakas GK

Important Notice to Purchaser:

The seller's and manufacturer's only obligation will be to replace the quantity of the product proved to be defective. Neither the seller nor CDS will be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, the user must determine the suitability of the product for his or her intended use.