

ACTIVATED CARBON DATASHEET



IMPREGNATED EXTRUDED COAL BASED ACTIVATED CARBON

ACF-950KI-TEDA

PRODUCT KEY FEATURES

- ⇒ Exceptional adsorption characteristics
- ⇒ Extensive pore structure
- ⇒ Rigorously de-dusted
- ⇒ Low ash content
- ⇒ Exceptional hardness & strength

TYPICAL APPLICATIONS

- ⇒ All the application benefits of a base carbon
- ⇒ ACF950KI-TEDA is specially impregnated for radioiodine removal

Test Conditions	Guaranteed Performance	Typical Performance
I ₂ (elemental), 30°C, 95%RH	<0.1% penetration	0.05 % penetration
I ₂ (elemental) retention, 180°C	>99.5% (loading plus elution)	99.9 % (loading plus elution)
Methyl iodine 25°C, 95%RH	<1.0 % penetration	<0.50% penetration
Methyl iodine 30°C, 95%RH	<1.0 % penetration	<0.50% penetration
Methyl iodine 80°C, 95%RH	<0.5 % penetration	0.10% penetration
Methyl iodine 130°C, 95%RH	<1.0 % penetration	0.10% penetration

Physical Properties	Values
Carbon Tetrachloride Activity (ASTM D3467)	60% Minimum on base carbon
Ash Content (ASTM D2866)	4% Maximum on base carbon
Apparent Density (ASTM D2854)	0.54 g/mL
Hardness (ASTM D3802)	98% Minimum
Ignition Temperature (ASTM D3466)	340°C Maximum
Impregnant Content (by extraction)	5% Maximum (reacted Iodide and Amine Salts)

Particle Size Distribution U.S Sieves (ASTM D2862)	Values
On 6 Mesh	0.1% Maximum
On 8 Mesh	5.0% Maximum
8 x 12 Mesh	60% Maximum
12 x 16 Mesh	40% Minimum
Thru 16 Mesh	5.0% Maximum
Thru 18 Mesh	1.0% Maximum

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