



ILMENITE



LEUCOXENE



RUTILE



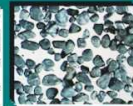
STAUROLITE



ZIRCON



ACTIVATED CARBON



SYNTHETIC RUTILE



TIWEST SALES PTY LTD

A.B.N. 40 009 344 094

PRODUCT SPECIFICATION SHEET**FOR FURTHER INFORMATION CONTACT:**

Tiwest Sales Pty Ltd, 1 Brodie Hall Drive, Bentley, Western Australia 6102

Telephone + 61 8 (08) 9365 1333 Facsimile +61 8 (08) 9365 1387

Granular Activated Carbon - RC412

RC412 is a virgin, high quality granular activated carbon, formed by the steam activation of coal under high temperature, reducing conditions. It has moderate to high iodine number and surface area characteristics, and low water soluble ash content, presented in a tightly controlled 4x12 US mesh sizing distribution.

RC412 meets current US Food Chemicals Codex requirements and is Kosher Certified.

Guaranteed Chemical Analysis

Analysis	Standard Test Method	Limit
Iodine Number	ASTM D4607-94	1,000 mg/g minimum
Ash (Water Soluble)	ASTM D5029-98	0.5% maximum

900 mg/g minimum guaranteed Iodine number RC412 also available upon request.

Guaranteed Sizing Distribution

Sieve Aperture	Weight Retained
+4.75 mm / 4 US mesh	5.0 % maximum
-1.70 mm / 12 US mesh	5.0 % maximum

Other guarantees for specific items may be established within individual contracts, subject to product availability and agreement.

Typical Properties

Analysis/Property	Test Method	Typical Result
Iodine Number	ASTM D4607-94	1,050 mg/g
Ash (Water Soluble)	ASTM D5029-98	<0.1 %
Total Ash	ASTM D2866-94	13 %
BET Surface Area		1,030 m ² /g
pH	ASTM D3838-80	7.8
Apparent Density	ASTM D2854-96	0.30 - 0.40 g/cc
Moisture as packed	ASTM D2867-99	<2.0 %

Typical Ash Analysis

Species	Content within Ash
SiO ₂	47.0 %
Al ₂ O ₃	40.0 %
TiO ₂	4.0 %
Fe ₂ O ₃	3.0 %

RC 412 can be shipped in bulka bags, paper bags, or other packaging with markings as required to suit individual customer requirements.

A Material Safety Data Sheet is available for RC412 and all other Tiwest products

Please direct all inquiries to Tiwest Sales through the contact details above.