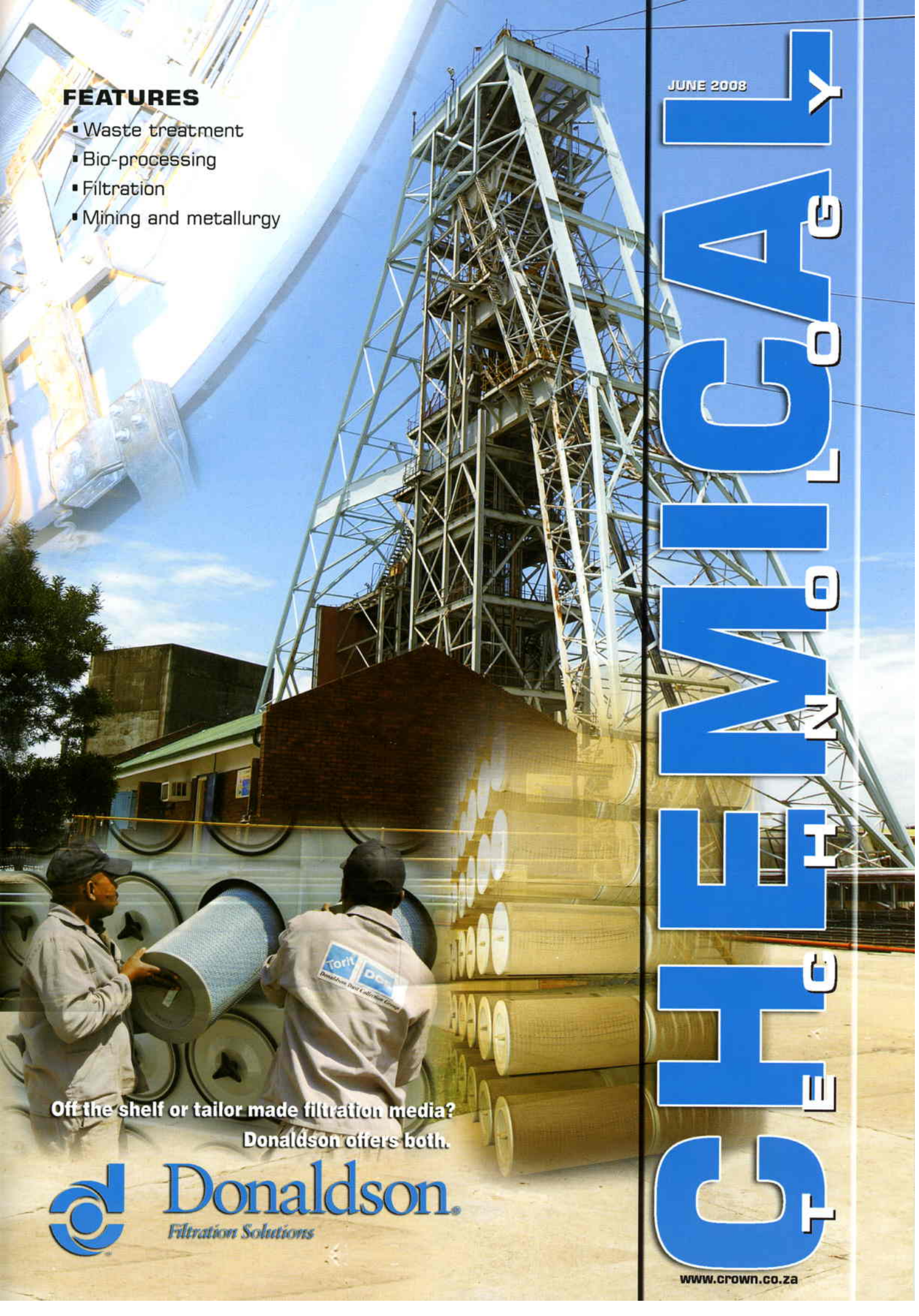
FEATURES
• Waste treatment
• Bio-processing
• Filtration
• Mining and metallurgy
JUNE 2008
CHEMICAL TECHNOLOGY
Off the shelf or tailor made filtration media?
Donaldson offers both.
Donaldson
Filtration Solutions
www.crown.co.za

Off the shelf or tailor-made filtration media?

All industrial processes generate either dust, fume or oil mist. Through our Donaldson Torit® brand, we have gathered a vast body of industrial air quality expertise enabling us to effectively reduce these contaminants and enhance air quality.

Donaldson® Torit's® dedication to filtration research and development is unique within the industry. Donaldson has designed the most efficient filtration technology, filter media and filter cartridges for all types of dust, fume and mist particulate. We also have the broadest line of collectors and filters available – from central, source and ambient systems to bag-house, envelope and cartridge solutions.

A member of the Johannesburg-based Donaldson team which makes custom bag filters for installations across sub-Saharan Africa. Donaldson Torit continually raises the bar in bag filter technology providing the widest range of bag filters for any bag-house collector, including other brands.

A Donaldson filter bag, made in South Africa, that incorporates Tetratex® membrane technology. These high performance Tetratex membranes can be bonded onto a range of substrates so that the ideal filter media can be tailor-made for each application across a wide range of market sectors.

Custom-designed membrane media

Our membranes division has created a comprehensive portfolio of filter media featuring a number of Tetratex® ePTFE membranes to extend filter life and save energy in industrial applications. This family of high performance membranes can be bonded onto a range of substrates so that the ideal filter media can be tailor-made for applications such as fine chemicals, cement, food and confectionery, plastics, metallurgical, non-metallic minerals and pharmaceutical.

High performance and multi-application

High performance laminates supply superior dust cake release, low pressure drop, higher air flow and high efficiency. The membranes are thermally bonded onto a range of substrates including woven, spun-bonded and needle-felt materials that are utilized in pulse jet, reverse air and cartridge type dust collectors and filter bag-houses.

Tetratex® is a surface filtration membrane; it is chemically inert and thermally stable up to 287°C. Tetratex® acts as a primary dust-cake, and requires no dust-cake to act as a filter aid. Tetratex® helps retain the substrate integrity by inhibiting dust particle penetration and restricting surface cake formation, maintaining optimum airflow and stable pressure drop. It delivers high particulate capture rates, excellent dust-cake release, extended bag life and energy savings.

For pollution control devices employing fabric filter media, the best available control technology for the capture of fine and difficult particulate is recognized by industry experts as media utilizing ePTFE membranes. Visit www.donaldson.co.za and select *Membranes and Nanofibres.*

Because Donaldson filtration media resources are so vast, the company is able to design and supply air filtration systems across the industrial range, from light manufacturing such as laboratory and pharmaceuticals to heavy-duty applications such as plasma cutting and steel manufacturing.

Donaldson's decades of trailblazing are reflected in the numerous leading-edge media to which the company holds the patent rights, such as the membranes in the Tetratex® family, Ultraweb® nanofibre filtration and long lasting Dura-Life™ technology for bag-house systems. Even Africa's mines (see cover photo) benefit from Donaldson air filtration for winder house electronics, dust control and process filtration.

Donaldson Filtration Systems (Pty) Ltd

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