



SmartChem

Smartcheck NDT Solutions

www.magneticyokes.com.au



Proudly Australian Owned & Made

Company Overview

Smartchem Industries was founded in September 2012, our Directors, Stuart and David Smart have collectively over 50 years experience in manufacturing Magnetic Particle and Dye Penetrant products to Australian & International Standards. Our products are batch traceable with Certificates of Conformance available on request. Our knowledge of the Industries expectations enables us to value add to your business.

We are Australian owned and operated our head office is located in Greater Western Sydney. We have a network of Distributors Australia wide further strengthening our ability to ensure the Smartcheck range of products are delivered on time, every time.

Our products are formulated using premium raw materials which are sourced from Australian suppliers where possible, we also ensure all our aerosol products are packaged by Australian aerosol fillers supporting Australian Business.

We stock a range of equipment which support our product lines including but not limited to both a range of AC Magnetic Yokes and Permanent Magnets, UV Inspection lights utilising the latest in UVA LED Technologies from a variety of suppliers including Battery Operated UV Torches.

We also stock a range of test pieces for both MPI and DPI Processes, we are also happy to source any additional equipment our customers may require.

Our company is based on the belief that our customers' needs are of the utmost importance. Our entire team is committed to meeting those needs.




We would welcome the opportunity to earn your trust and deliver you the best products and service in the industry.

We are happy to make samples available for your evaluation, we are confident you will be impressed by the performance of our products.



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Dye Penetrant Consumables

Smartcheck Product	Description	Pack Sizes	Product Code
	<p>SMARTCHECK Dye Pen Red is water washable/solvent removable penetrant used in the visible dye penetrant process to detect surface flaws such as crack, laps and porosity in ferrous and non-ferrous materials including non-porous ceramics and some plastics.</p>	<p>Aerosol 5L 20L</p>	<p>DPREDA DPRED5 DPRED20</p>
<p><i>Conforms to: AMS 2644 methods A & C, ASTM-E-1417, AS 2062 & ASME Section V</i></p>			
	<p>SMARTCHECK Dye Pen Developer is a non-Aqueous Wet Developer used in the dye penetrant process to detect surface flaws such as cracks, laps and porosity in ferrous and non-ferrous materials including non-porous ceramics and some plastics. It consists of refined white particles in a rapid drying solvent system</p>	<p>Aerosol 5L 20L</p>	<p>DPDEVA DPDEV5 DPDEV20</p>
<p><i>Conforms to: AMS 2644 form d & e type 2, ASTM-E-1417, AS 2062 & ASME Section V</i></p>			
	<p>SMARTCHECK Dye Pen Remover is a non-chlorinated solvent remover/precleaner for the dye penetrant process used to detect surface flaws such as cracks, laps & porosity in ferrous and non-ferrous materials including non-porous ceramics and some plastics. It is rapid drying and leaves no residue. It is also an effective general purpose degreaser.</p>	<p>Aerosol 5L 20L</p>	<p>DPREMA DPREM5 DPREM20</p>
<p><i>Conforms to: AMS 2644 Class 2, ASTM-E-1417, AS 2062 & ASME Section V</i></p>			
	<p>SMARTCHECK Dye Pen Kit contains 1 aerosol can each Smartcheck Dye Pen Red, Dye Pen Remover and Dye Pen Developer</p>	<p>Aerosol</p>	<p>DPRKIT</p>

AMS 2644 methods A & C, ASTM-E-1417, AS 2062 & ASME Section V

Magnetic Particle Consumables

Smartcheck Product	Description	Pack Sizes	Product Code
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SMARTCHECK MPI Black is an oil based ready to use black magnetic ink for use in the Magnetic Particle Inspection process.

Aerosol
5L
20L

MPIBA
MPIB5
MPIB20

Also available in paste form for dilution with **Smartcheck MPI Carrier Fluid**, dry powders in various colours and as a water-based concentrate.

Conforms to: AMS 3043 (Aerosol), AMS 3041 (Bulk), ASTM E 1444 & AS 1171



SMARTCHECK MPI White is a new generation, rapid drying white contrast paint formulated specifically to provide a white background to enhance indications in visible magnetic particle inspections on dark steel.

Aerosol
5L
20L

MPIWA
MPIW5
MPIW20

Conforms to BS 5044 & AS 1171



SMARTCHECK MPI CLEANER is a rapid drying solvent cleaner formulated specifically to remove white contrast lacquers used in visible magnetic particle inspections.

Aerosol
5L
20L

MPICA
MPIC5
MPIC20

SMARTCHECK MPI Cleaner is also effective at removing light oils such as MPI carrier oils, and marker pen.



SMARTCHECK MPI FLUORO is an oil based ready to use fluorescent magnetic ink for use in the Magnetic Particle Inspection process. It consists of a dispersion of fine high quality spherical particles of uniform size for improved mobility in response to magnetic fields, specifically developed to fluoresce brightly at peak wavelengths of 365nm.

Aerosol
5L
20L

MPIFA
MPIF5
MPIF20

Also available in dry powder form for dilution with **SMARTCHECK MPI Carrier Fluid** and as a water-based concentrate.

Conforms to: AMS 3046 (Aerosol), AMS 3045 (Bulk), ASTM E 1444 & AS 1171