

Dugdale

High performance PVC compounds & alloys

# Ducafreeze

freeze compound

- Lead and tin free
- High temperature performance
- Suitable for all grades of rigid and flexible PVC
- Eliminates dismantling of tools and dies
- Saves time and resources
- Reduces wear and risk of tooling damage



**As companies move towards both the PVC industry voluntary commitment which stipulates the phasing out of lead by 2015, and the forthcoming implications with regard to REACH compliance, purge and freeze compounds have tended to be overlooked due to the efficiency of 'heavy metal' based systems with regard to thermal stability. Ducafreeze, high performance PVC compound has rewritten the script.**

Developed specifically to replace lead free compounds Ducafreeze overcomes the thermal stability limitations of conventional non-lead purge and freeze compounds which render them unsuitable for use in high end rigid PVC applications where processing temperatures can exceed 200°C.

Ducafreeze can be used to purge material in the die while processing plant temperatures are being reduced. It can be left in the tooling and machine for extended periods. On start up the temperature is increased allowing Ducafreeze to be purged through using standard material – saving both time and resources as the die does not need to be stripped down and cleaned. This has the additional benefit of reducing wear and the risk of damage to tooling caused by continuous disassembly, cleaning and reassembly.

Ducafreeze can also be used as a conventional purge material that is easily removed from metal surfaces and intricate die flow paths – again minimising the potential for tooling damage.

Suitable for use on extrusion and injection moulding equipment Ducafreeze has the flexibility to provide a purging solution for all rigid and flexible PVC processors while its robust temperature performance will appeal to trade extruders and producers of window profile, pipe and products for the building and construction industries.

Ducafreeze is supplied in pellet form and coloured blue as standard for identification purposes but other colours may be available on request.

#### PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	UNITS	VALUE
Specific gravity	BS2782 620A	g/cc	1.49
Bulk density	Measured on pellet	g/cc	0.90
Thermal stability (Congo Red)	BS 2782 : Part 1, Method 130A	Mins.	>90

Ducafreeze is one of a new generation of tailored, high performance technical PVC compounds developed by Dugdale Plc.

Dugdale develop and manufacture premium quality rigid and flexible PVC compounds, dry blends and high performance PVC compounds and alloys that add value and create marketing edge. A rapid colour match and supply service for small lots of rigid and flexible PVC compounds that enables customers to respond quickly to demands is part of our service package.

As one of the first UK PVC compounders to act on the PVC industry voluntary commitment to phase out lead we can now offer lead free versions of all our flexible and rigid PVC compounds. Additionally we have taken account of the forthcoming implications with regard to REACH compliance so we can help you meet the most demanding specifications now and in the future.

The quality of service offered by Dugdale is unmatched in the PVC compounding industry. We work with customers to create materials to meet specific needs and form strategic partnerships to maintain continuity of supply.

#### Dugdale Plc

Holmes Road, Sowerby Bridge, West Yorkshire HX6 2AA  
 Telephone: +44 (0) 1422 832501 Fax: +44 (0) 1422 833401  
 Email: info@dugdaleplc.com www.dugdaleplc.com



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