

MR® SmartChoice SP10, Penetrant – Red; Solvent Removable

SMARTCHOICE is an exclusive low-cost edition by MR® Chemie for sale in select channels only.

SMARTCHOICE SP10 is a Type II solvent removable red colour penetrant ideal for general industrial dye penetrant testing. It exhibits good penetrating characteristics along with classic red indications which provides optimum reliability in locating surface open flaws and discontinuities. Typical application include casting, forgings, leak testing, welds, pressure vessels and general metal works.

Additional information

PROPERTIES	Appearance – red oily liquid Chemical Composition – mixture of hydrocarbon and dye Basis – hydrocarbon Odour – characteristic
APPROVALS	ASME Code V, Art. 6 DIN EN ISO 3452 ASTM E165 ASTM E1417 ASME NPCIL
FAMILY TESTING	Penetrant – SP10 Cleaner – SC20 Developer – SD30
RECOMMENDED USAGE	NDT Method – Dye Penetrant Testing Type – II Method – C Sensitivity – 2 Compatibility – SMARTCHOICE SD30 Area Coverage ~ 5 sq m (400ml nett Aerosol can); ~ 19 sq m (1 L) Usage Temperature – 41°F to 131°F / +5 °C to +55 °C Storage Temperature – 41°F to 113°F / +5 °C to +45 °C
REFERENCE TEST BLOCKS	Reference test block type 1 (Ni-Cr panel – 30µm & 50µm) Reference test block type 2 (5-star panel) ASTM test block (Aluminium comparator block)

MR® SmartChoice SC20, Solvent Cleaner



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SMARTCHOICE SC20 is an NDT-approved non-halogenated solvent-based cleaner/remover for precleaning (removes oils, greases and other contaminants) and removing excess surface penetrant from an inspection area before applying developer during liquid penetrant testing. It dries optimally without leaving any residue on the surface.

Additional information

PROPERTIES	Appearance – white liquid Chemical Composition – mixture of pigments in volatile non-halogenated solvents Basis – solvent Odour – characteristic
APPROVALS	ASME Code V, Art. 6 DIN EN ISO 3452 ASTM E165 ASTM E1417 ASME NPCIL
FAMILY TESTING	Penetrant – SP10, WP15 Cleaner – SC20 Developer – SD30
RECOMMENDED USAGE	NDT Method – Dye Penetrant Testing Form – d/e (EN ISO 3452-2); e (AMS 2644) Compatibility – all Type 2 penetrants, selective Type I penetrants Area Coverage ~ 6 sq m (400ml nett Aerosol can); ~ 19 sq m (1 L) Usage Temperature – 14°F to 131°F / -10 °C to +55 °C Storage Temperature – 41°F to 113°F / +5 °C to +45 °C
REFERENCE TEST BLOCKS	Reference test block type 1 (Ni-Cr panel – 30µm & 50µm) Reference test block type 2 (5-star panel) ASTM test block (Aluminium comparator block)



MR® SmartChoice SD30, Developer – White, Non-Aqueous

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SMARTCHOICE SD30 is a bright white, matte finish, non-halogenated, non-aqueous developer used to enhance the visibility of surface-breaking defects or discontinuities by producing an opaque coating during dye-penetrant inspection.

Additional information

PROPERTIES	Appearance – white liquid
	Chemical Composition – mixture of pigments in volatile non-halogenated
	solvents
	Basis – solvent
	Odour – characteristic
	Ododi – Glaracteristic
APPROVALS	ASME Code V, Art. 6
	DIN EN ISO 3452
	ASTM E165
	ASTM E1417
	ASME
	NPCIL
	INFOIL
FAMILY TESTING	Penetrant – SP10, WP15
	Cleaner – SC20
	Developer – SD30
RECOMMENDED USAGE	NDT Mathe de Douglas de Arant Toutin
	NDT Method – Dye Penetrant Testing
	Form – d/e (EN ISO 3452-2); e (AMS 2644)
	Compatibility – all Type 2 penetrants, selective Type I penetrants
	Area Coverage ~ 6 sq m (400ml nett Aerosol can); ~ 19 sq m (1 L)
	Usage Temperature – 14°F to 131°F / -10 °C to +55 °C
	Storage Temperature – 41°F to 113°F / +5 °C to +45 °C
REFERENCE TEST	Reference test block type 1 (Ni-Cr panel – 30µm & 50µm)
BLOCKS	Reference test block type 2 (5-star panel)