

SIRESTER[®] CD 4

**PRODUCT DATA
SHEET**
RP/CD4/062021

Description

Aliphatic unsaturated polyester resin based on neopentilglycol, diluted in styrene, with medium reactivity and medium viscosity.

Applications

SIRESTER CD4 is a special resin particularly suitable for the production of gel-coats: it provides good wetting, high mechanical properties along with outstanding weathering and UV resistance.

Sales specification

Property	Value	Unit	Method
Acid number	< 15	mg KOH/gr	SIR 10231
Viscosity at 25 °C	450 - 550	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Hazen colour	< 120	Sc. Pt/Co	SIR 10007
Styrene content	38	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	12	minutes	SIR 10234
SPI	6	minutes	
peak temperature	210	°C	SIR 10232
time to peak	9	minutes	
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (Oct) 6% + 1,50 ml MEKP-50.

SIRESTER[®]: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

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SIRESTER[®] CD 4

**PRODUCT DATA
SHEET**
RP/CD4/062021

Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	40		EN 59
Flexural strength	135	MPa	ISO 178
E-Module, flexion	3600	MPa	ISO 178
Tensile strength	70	MPa	EN ISO 527
E-Module, tension	3200	MPa	EN ISO 527
Elongation at break	3,5	%	EN ISO 527
HDT	100	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Mechanical properties of glass fibre reinforced resin (glass/resin 30/70) (*)

Property	Value	Unit	Method
Flexural strength	210	MPa	ISO 14125
E-Module, flexion	8500	MPa	ISO 14125
Tensile strength	110	MPa	EN ISO 527
E-Module, tension	8400	MPa	EN ISO 527

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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SIRESTER[®] FSG 0583

**PRODUCT DATA
SHEET**
RP/0583/052021

Description

Saturated polyester resin, solvent-free, with medium-high viscosity.

Applications

SIRESTER FSG 0583 is suitable in particular for the formulation of pigment pastes: it provides excellent wetting properties of many different mineral fillers and high flexibility.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 20	mg KOH/gr	SIR 10231
Viscosity at 25 °C	2200 – 2600	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Solid content	100	%	SIR 10553
Apha colour	< 200	Sc. Co/Pt	SIR 10007

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is not labelled as dangerous: further information is provided in the relevant safety data sheet.

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SIRESTER[®] FSG 0765

**PRODUCT DATA
SHEET**
RP/0765/052021

Description

Orthophthalic unsaturated polyester resin based on neopentylglycol, diluted in styrene, with medium reactivity and medium viscosity; contains a UV stabilizer.

Applications

SIRESTER FSG 0765 is suitable in particular for the formulation of gel-coats: it provides superior wetting properties, higher chemical and UV resistances compared to a standard orthophthalic material and good mechanical strengths.

Sales specification

Property	Value	Unit	Method
Acid number	< 18	mg KOH/gr	SIR 10231
Viscosity at 25 °C	500 - 600	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Styrene content	34	%	SIR 10257
Hazen colour	< 100	Sc. Co/Pt	SIR 10007
Gel time at 25 °C ⁽¹⁾	8	minute	SIR 10234
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (oct) 6% + 1,50 ml MEKP-50.

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SIRESTER[®] FSG 0765

**PRODUCT DATA
SHEET**
RP/0765/052021

Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	140	MPa	ISO 178
E-Module, flexion	4000	MPa	ISO 178
Tensile strength	75	MPa	EN ISO 527
E-Module, tension	3900	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	80	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Mechanical properties of the reinforced resin (glass/resin 30/70) (*)

Property	Value	Unit	Method
Flexural strength	230	MPa	ISO 14125
E-Module, flexion	8700	MPa	ISO 14125
Tensile strength	110	MPa	EN ISO 527
E-Module, tension	8900	MPa	EN ISO 527

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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SIRESTER[®] FSG 0819

**PRODUCT DATA
SHEET**
RP/0819/052021

Description

Unsaturated orthophthalic polyester resin, diluted in styrene, with low reactivity and medium viscosity.

Applications

SIRESTER FSG 0819 is a special material suitable for the production of flexible systems, in particular for gelcoat, bonding pastes and coating formulations; it provides excellent compatibility with different resins, pigments and fillers and very high elongation at break; this material is not supposed to be used as sole binder for glass fibre reinforced plastics.

Sales specification

Property	Value	Unit	Method
Acid number	< 20	mg KOH/gr	SIR 10231
Viscosity at 25 °C	350 - 550	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear		SIR 10010
Styrene content	34	%	SIR 10257
Hazen colour	< 70	Sc. Co/Pt	SIR 10007
Gel time at 25 °C ⁽¹⁾	13	minute	SIR 10234
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (Oct) 6% + 1,50 ml MEKP-50.

SIRESTER[®]: SIR INDUSTRIALE registered trade mark.

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Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	2		EN 59
Flexural strength	10	MPa	ISO 178
E-Module, flexion	220	MPa	ISO 178
Tensile strength	15	MPa	EN ISO 527
E-Module, tension	400	MPa	EN ISO 527
Elongation at break	50	%	EN ISO 527
HDT	< 20	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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SIRESTER[®] FSG 0820/X

**PRODUCT DATA
SHEET**
RP/0820X/052021

Description

Orthophthalic unsaturated polyester resin, diluted in styrene, with medium reactivity and medium viscosity; contains a UV stabilizer.

Applications

SIRESTER FSG 0820/X is suitable in particular for the production of orthophthalic gel-coats; it provides high wetting properties, very light colour in formulations and good mechanical strengths.

Sales specification

Property	Value	Unit	Method
Acid number	< 25	mg KOH/gr	SIR 10231
Viscosity at 25 °C	500 - 700	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Apha colour	< 80	Sc. Co/Pt	SIR 10007
Styrene content	34	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	8	minute	SIR 10234
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (oct) 6% + 1,50 ml MEKP-50.

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SIRESTER[®] FSG 0820/X

**PRODUCT DATA
SHEET**
RP/0820X/052021

Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	40		EN 59
Flexural strength	110	MPa	ISO 178
E-Module, flexion	4400	MPa	ISO 178
Tensile strength	60	MPa	EN ISO 527
E-Module, tension	4200	MPa	EN ISO 527
Elongation at break	2,0	%	EN ISO 527
HDT	65	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Mechanical properties of the reinforced resin (glass/resin 30/70) (*)

Property	Value	Unit	Method
Flexural strength	200	MPa	ISO 14125
E-Module, flexion	8300	MPa	ISO 14125
Tensile strength	95	MPa	EN ISO 527
E-Module, tension	8200	MPa	EN ISO 527

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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SIRESTER[®] FSG 0827

**PRODUCT DATA
SHEET**
RP/0827/052021

Description

Orthophthalic unsaturated polyester resin, diluted in styrene, with fast reactivity and medium-high viscosity.

Applications

SIRESTER FSG 0827 is suitable in particular for the production of orthophthalic gel-coats: it provides good wetting properties, fast curing cycle and high mechanical strengths.

Sales specification

Property	Value	Unit	Method
Acid number	32 - 37	mg KOH/gr	SIR 10231
Viscosity at 25 °C	1150 - 1250	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Hazen colour	< 70	Sc. Co/Pt	SIR 10007
Styrene content	32	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	5	minute	SIR 10268
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (oct) 6% + 2,0 ml MEKP-50.

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SIRESTER[®] FSG 0827

**PRODUCT DATA
SHEET**
RP/0827/052021

Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	130	MPa	ISO 178
E-Module, flexion	4200	MPa	ISO 178
Tensile strength	70	MPa	EN ISO 527
E-Module, tension	3900	MPa	EN ISO 527
Elongation at break	2,5	%	EN ISO 527
HDT	75	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Mechanical properties of the reinforced resin (glass/resin 30/70) (*)

Property	Value	Unit	Method
Flexural strength	220	MPa	ISO 14125
E-Module, flexion	8700	MPa	ISO 14125
Tensile strength	105	MPa	EN ISO 527
E-Module, tension	8800	MPa	EN ISO 527

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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SIRESTER[®] FSG 0885

**PRODUCT DATA
SHEET**
RP/0885/052021

Description

Unsaturated polyester resin, solvent-free, with medium-high viscosity.

Applications

SIRESTER FSG 0885 is suitable in particular for the formulation of pigment pastes: it provides excellent wetting properties of many different mineral fillers and high flexibility.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 25	mg KOH/gr	SIR 10231
Viscosity at 25 °C	900 – 1100	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	clear liquid		SIR 10010
Solid content	100	%	SIR 10553
Apha colour	< 200	Sc. Co/Pt	SIR 10007

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

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SIRESTER[®] ISG 0818/L

**PRODUCT DATA
SHEET**
RP/0818L/052021

Description

Isophthalic unsaturated polyester resin, diluted in styrene, with medium reactivity and medium-high viscosity. The resin is UV stabilized.

Applications

SIRESTER ISG 0818/L is suitable in particular for gel coats production: it provides very good wetting properties, high mechanical strengths and superior weathering and hydrolysis resistance.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 15	mg KOH/gr	SIR 10231
Viscosity at 25 °C	700 - 800	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear to hazy		SIR 10010
Styrene content	37	%	SIR 10257
Hazen colour	< 80	Sc. Pt/Co	SIR 10007
Gel time at 25 °C ⁽¹⁾	17	minute	SIR 10235
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,30 ml Co (Oct) 6% + 1,0 ml MEKP-50.

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SIRESTER[®] ISG 0818/L

**PRODUCT DATA
SHEET**
RP/0818L/052021

Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	55		EN 59
Flexural strength	120	MPa	ISO 178
E-Module, flexion	4200	MPa	ISO 178
Tensile strength	70	MPa	EN ISO 527
E-Module, tension	3800	MPa	EN ISO 527
Elongation at break	2,5	%	EN ISO 527
HDT	95	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Mechanical properties of the reinforced resin (glass/resin 30/70) (*)

Property	Value	Unit	Method
Flexural strength	220	MPa	ISO 14125
E-Module, flexion	8900	MPa	ISO 14125
Tensile strength	100	MPa	EN ISO 527
E-Module, tension	8700	MPa	EN ISO 527

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Supply Form

Product is available in a 225 Kg lined drum, 1000 Kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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SIRESTER[®] ISG 0839

**PRODUCT DATA
SHEET**
RP/0839/052021

Description

Isophthalic unsaturated polyester resin based on neopentylglycol, diluted in styrene, with high reactivity and medium viscosity. The resin is UV stabilized.

Applications

SIRESTER ISG 0839 is suitable in particular for gel coats formulation: it provides very good mechanical properties, superior hydrolysis stability and high chemical and weathering resistance.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 18	mg KOH/gr	SIR 10231
Viscosity at 25 °C	450 - 550	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear yellowish		SIR 10010
Styrene content	40	%	SIR 10257
Hazen colour	< 100	Sc. Pt/Co	SIR 10007
Gel time at 25 °C ⁽¹⁾	7	minutes	SIR 10234
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (Oct) 6% + 1,50 ml MEKP-50.

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SIRESTER[®] ISG 0839

**PRODUCT DATA
SHEET**
RP/0839/052021

Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	130	MPa	ISO 178
E-Module, flexion	4000	MPa	ISO 178
Tensile strength	75	MPa	EN ISO 527
E-Module, tension	3600	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	100	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Mechanical properties of glass fibre reinforced resin (glass/resin 30/70) (*)

Property	Value	Unit	Method
Flexural strength	210	MPa	ISO 14125
E-Module, flexion	8700	MPa	ISO 14125
Tensile strength	110	MPa	EN ISO 527
E-Module, tension	8800	MPa	EN ISO 527

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

The product is stable for 6 months if stored in the original unopened packaging, below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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