

SRI

Safe, Effective, Environment-friendly



SRI Leading The Fight Againts Fire

With Integrated Solutions

SRI was established in 1974 and wholly owned by SRII Group. We are committed to provide the most comprehensive and reliable fire fighting equipment and services to protect lives and properties. Our customers are assured of the best from design, manufacturing to delivery, installation and service. Our capabilities in design and manufacturing allow us to customise products to client specifications. Our network of more than 70 distributors in the Asia Pacific, Middle East, Europe, the African continent and the USA, assures our customers of fast, efficient delivery of SRI products.

Our team of fire protection engineers, professionals and skilled technicians are well experienced in interpreting specifications and requirements of enforcement authorities. With the understanding of these requirements, our engineers and technicians will support installation as well as provide product training and efficient maintenance to ensure optimum performance of the systems.

With Quality

SRI's full range of fire fighting products are manufactured to international standards such as British standards (BS); European standards (EN); Australian standards (AS); Singapore standards (PSB); Underwriter Laboratories standards (UL); and Malaysian standards (MS). Our manufacturing facilities are certified to meet ISO 9001 by Quality Assurance Services Australian Accreditation scheme and international IQNet.

With Exclusive Agency Products

To complement SRI's own manufactured products, we hold exclusive agency lines to world renowned brands of fire fighting equipment and systems. These make available to our customers extended specialised equipment to forge a total fire protection system. Our agency line of products include:

HFC 227EA System
 CO2 System

Foam System

Fine Water Spray
 Inertec System (Inert Gas)
 Fire Detection System

With Research & Development

Continuous development of products. Research into the latest technological breakthroughs in fire fighting. Study in fire fighting skills. Monitoring developments and trends in the industry. All these and more are part and parcel of the SRI Research and Development arm. It is our firm commitment to foresee the needs and problems in the industry and work towards achieving full solutions to these needs.





With the phase out of the most commonly used but environmentally damaging Halon 1301 and CO_2 fire suppressant, *inert gases* are becoming the global alternatives of choice in view of the following:

Proven safety for people, property and the environment are natural requirements in addition to the desirable properties of effectiveness, cleanliness and zero secondary damage.

Inert gases are the best choice for extinguishing agents as they extinguish fires by oxygen depletion by lowering the normal oxygen concentration in the air from 21% to about 12%, below the limit required for combustion whilst still providing a safe and breathable atmosphere.

The composition of naturally occurring gases of inertee is a preferred choice as it provides users with all the advantages of an internationally accredited and environmentally friendly protection solution without the high costs of traditional implementation of equivalents.



INE SUPPRESSION SYSTEMS ... The Natural Solution

The Montreal Protocol in 1987* and more recently, the Kyoto Protocol** of 2005 required that in addition to protecting lives and properties from fire, safeguarding the environment now plays an equally important role in the development of today's fire suppression agents. As a result, **SRI** introduced the **iner** fire suppression systems which meets all the three objectives of a responsible and modern fire protection system; *Protect Lives, Protect Properties and Protect the Environment.*

Inerces is a gaseous clean fire suppressant comprised of nitrogen, argon or both, which are naturally occurring gas. As inerces is derived from a gas present in the atmosphere, it exhibits no ozone depleting potential, does not contribute to global warming, nor does it contribute unique chemical species with extended atmospheric lifetimes and because it is totally composed of an atmospheric gas, it does not pose the problems of toxicity associated with the chemically derived Halon alternatives.

inertee fire suppression systems are developed to meet and exceed international standards and have been approved by VdS SCHADENVERHÜTUNG

* The Montreal Protocol (1987) calls for a planned reduction and phase-out in the production and consumption of ozone depleting substances.

* The Kyoto Protocol (2005) treaty is an international agreement to reduce the greenhouse gas emissions causing climate change. The Kyoto Protocol commits 38 industrialized countries to cut their key greenhouse gas emissions to specific levels by the year 2012.



Protecting Life

Although early warning detection systems normally allow people to evacuate from the protected area well before any kind of fire suppression agent is discharged, any unforeseen circumstances may prevent immediate escape. This is why it is important that your fire suppression agent is safe to use in automatic total flooding systems for possible and normally occupied areas.

- Almost all fires are extinguished at the oxygen concentration level of below 15%. inerces fire suppression systems reduces the oxygen concentration to around 12%, a level which is acceptable to human exposure over short periods of time.
- One of the advantages of the inercession agent is that it won't produce a fog, so that occupants are not visibly impaired on the way to the exit. Furthermore, the inercession fire suppressants are not toxic, and more importantly, they will not decompose into toxic or corrosive by products. Halocarbon alternative agents can create dangerous levels of hydrogen fluoride when they contact with fire.
- Inertec fire suppression agent can be used in a human exposure areas (According to NFPA2001)



Protecting Property

inerties fire suppressants are ideally suited to protecting property. Upon deployment, inerties

- Produces no condensation or temperature shocks that can cause harm to equipment
- Produces no harmful or decomposition by products upon contact with heat or fire
- Produces no residue, colourless, odourless, electrically non-conductive and no clean up is required.
- That's why increase fire suppression systems are ideally suited for the protection of sensitive electronics and delicate high value irreplaceable assets.
- With virtually the same density as air, **iner** fire suppressants spreads quickly throughout the protected area and holds its concentration longer to snuff out fires in their early stages. Most other heavier than air Halon alternative agents sink to the floor and seep under doors and wells.

SRI **iner** set fire protection system is effective to suppress the following type of fires:-

Class of fire (NFPA 2001)	Class of fire (Asia)	Type of fire	Heat Sources
А	А	Surface Fires	Wood, paper, fabric, etc
В	В	Flammable Liquid Fires	Gasoline, Kerosene, etc
D	C Fla	Flammable Gas Fires	LPG, Propane, hydrogen, etc
С	Е	Energized Electrical Equipment Fires	Electrical component, switches, etc.



Protecting The Environment

iner fire suppressants are completely environment friendly. They are composed entirely of naturally occurring gases which exists in the air we breathe;

- ♦ inerte@()1 IG-01 (100% Argon)
- ◆ inertee 55 IG-55 (50% Argon/50% Nitrogen)
- ◆ inertee 100 IG-100 (100% Nitrogen)

In fact, the inertise gases presents no negative environmental impact which means...

- ZERO ozone depletion potential
- ZERO global warming potential
- **ZERO** atmospheric lifetime
- When a inerces fire suppressant is used, it's components are simply returned to the surrounding atmosphere. And because inerces is not a synthetic chemical, it is not subject to potential future use restriction. In fact, you would have to ban air in order to ban inerces.



- Because inerties comprise of only Argon and / or Nitrogen, it achieves zero ODP and GWP unlike other halon replacement agents which are HFC based and are classified as Greenhouse gases in the same category as CO₂ which contribute to Global warming.
- It is with these considerations in mind that the use of CO₂ is avoided in inerties thus avoiding possible limited product lifetime dictated by changes in global environment legislation. Your inerties fire suppressant could be used forever as there will never be any environmental restrictions on the use of Argon and / or Nitrogen, which is the biggest element of air.

	Camparison Chart - Inertec Fire Suppression Agents to Halon 1301							
Agent	Chemical Formula	I ODP GWP (100 Years Time Horizon)		Atmospheric Lifetime (years)	Storage Pressure	Minimum design concentration		
Halon 1301	CF3Br	10	6,900	65	25/42 Bar	5		
Inertec01	100% Ar	0	0	0	200 Bar	40		
Inertec55	50% N2 50% Ar	0	0	0	200 Bar	38		
Inertec100	100% N 2	0	0	0	200 Bar	37		

Source :

"Scientific Assessment of Ozone Depletion : 1998." World Meteorological Organisation, Global Ozone Research and Monitoring Project.

Report No.44 : 1998.



System Design and Operation

By removing one side of the fire triangle a fire can be suppressed. **incr** system floods the enclosure to reduce the oxygen concentration level to below 15% and thus suppresses the fire.



- Fuels may be in the form of Gases, Liquids or Solids
- Heat is needed to raise the fuel to its ignition temperature.
- Oxygen 15% is required. Air contains 21%.
- When all 3 elements are present a chain reaction occurs thus causing a fire.

SRI's **iner** systems are designed, installed and maintained according to NFPA 2001 (Clean Agent Fire Extinguishing Systems and ISO 14520 Gaseous Fire Extinguishing Systems standards).

incr is a total flooding system whereby the required amount of gas is discharged into an enclosed area to extinguish fire. The gas is stored as compressed gas at 200bar or 300bar. The system can be actuated electrically from a control panel or manually actuated from the cylinder bank, and the discharged gas pressure is reduced to less than 60 bar after the manifold. The system is normally designed as such that 95% of the gas will be discharged into the protected area within 60 seconds.

Multiple storage options are possible with **iner** as the system has been designed for long distance delivery. This means that the cylinder banks can be stored remotely from the risk area when storage space is a concern.



When two or more areas of protection do not require flooding of gas at the same time, directional or selector valves can be used to allow the same bank of cylinders to protect multiple areas. Such sub-systems can substantially reduce equipment costs and storage area for cylinders. Maintenance and inspection locations can also be reduced accordingly.

Example of typical calculation for inertees total flooding requirement:						
Dimensions of room to be protected	10.0m (L) x 5.3m (W) x 3.0m (H)	10.0m (L) x 5.3m (W) x 3.0m (H)	10.0m (L) x 5.3m (W) x 3.0m (H)			
Volume of room to be protected	159.0m ³	159.0m ³	159.0m ³			
Design Temperature	20ºC	20ºC	20ºC			
Extinguishing Design Concentration	40% (for NFPA 2001 Class A & C hazards)	38% (for NFPA 2001 Class A & C hazards)	37.2% (for NFPA 2001 Class A & C hazards)			
Flooding Factor	0.5108 (NFPA 2001)	0.48 (NFPA 2001)	0.4652 (NFPA 2001)			
Therefore,						
Agent required	Volume of room to be protected x Flooding Factor					
Volume of agent required	81.22m3 (159 m3 x 0.5108)	76.32m ³ (159 m ³ x 0.48)	73.97m ³ (159 m ³ x 0.4652)			
Agent capacity per 80 litre cylinder 17.1m ³ (27.4kg)		15.8m ³ (22.2kg)	15.2m ³ (17.5kg)			
Number of cylinders required	Agent required / Agent capacity per cylinder					
	81.22/17.1	76.32 / 15.8	73.97 / 15.2			
	4.75	4.83	4.87			
Round up to next integer	5	5	5			
Therefore the number of cylinders required	5 numbers of 80L cylinders of	5 numbers of 80L cylinders	5 numbers of 80L cylinders of			
		(providing coverage up to 76m ³) Of inertee 55	inerte: 100			



Fire Suppression System Applications





Item	Part No.	Description	Material	Approval	Approval No.
1	ING062	Valve series F2022			
2	ING063	Manual & Pneumatic Actuator F1120	Brass	VdS	G314002
	ING064	Pneumatic Actuator F1120			
3	ING068	Pressure Gauge Type F 0520005		-	-
4	ING008	Discharge hose DN 12	Wire Braided Rubber Hose	VdS	G304026
5	ING001	Check Valve 3/4"	Brass Alloy 352	VdS	G304025
6	ING009	Pressure Reducer Unit, DN 50	Steel Alloy	VdS	G305006
7	ING038 ING039	Manifold Single socket Manifold double socket	Sch. 160 Sch. 160	API 5L G	/ASTM-A 106, RADE B
8	ING010	Pilot Hose DN08	Wire Braided Rubber Hose	VdS	G304027
9	ING065	Electromagnetic Actuator F1120	Brass	Vds	G314002
10	ING024	80L, TPED CE or DOT	Chromium	TUV Cert	0035-154000338-2
		Cylinder	Molybdenum Steel	DOT 3AA	DOT 3AA / TPED 1999/36 ICS
11	ING046	Cylinder Strap	Steel	N/A	N/A
12	ING044	Cylinder Wall Bracket	Steel Alloy	N/A	N/A

	DIRECTIONAL VALVE SYSTEM - OPTIONAL				
Item	Part No.	Description	Material		
13	ING027	Selector Valve DN 50 GB 2	Aluminium Alloy		
14	ING026	Discharge pressure switch model FF4	Brass		
15	CO2003-AD6112	Solenoid valve 2way model AD6112	Brass		
16	ING033	Pressure regulator model 0-300 Bar, Output-8 Bar	N/A		

System Components

All system components as listed must be sourced from SRI to ensure effective and safe operation. Installation and maintenance shall be carried out according to the **iner** System manuals.



Inertec System Components



INERTEC VALVESERIES F2022 Material

Valve Body	: Brass
Max. Working Pressure	: 250 Bar
Temperatue Range	: - 15°C to + 50°C
Inlet Connection	: W 28.8 x 1/14" DIN
Outlet Connection	: W 21.8 x 1/14" DIN
Release Device	
Connection	: M 42 x 1.5
Pressure Gauge	
Connection	: M 10 X1
Burst Disc	: 270 Bar
Approval	: VdS
Approval No.	: G 314002 Typ F2022000 – Inert Gases 200 Bar

Part No.



PNEUMATIC RELEASE DEVICE FOR SERIES F1120

Material

Body	: Brass
Min. Actuating Pressure	e: 15 Bar
Max. Working Pressure	: 250 Bar
Valve Connection	: M 42 x 1.5
Pneumatic Connection	: 1/8" BSP
Approval	: VdS
Approval No.	: G 314002 Typ F1120011 :
Part No.	ING064
i alt i to.	

: ING062



MANUAL / PNEUMATIC RELEASE **DEVICE FOR SERIES F1120** Material

Body	: Brass
Lever	: Stainless Steel
Safety Pin	: Stainless Steel
Min. Actuating Pressure	e: 15 Bar
Max. Working Pressure	: 250 Bar
Valve Connection	: M 42 x 1.5
Pneumatic Connection	: 1/8" BSP
Approval	: VdS
Approval No.	: G 314002 Typ F1120006 :
Part No.	ING063

CHECK VALVE 3/4"

Material

Body

Туре Max. Working Pressure : 250 BAR Inlet Connection Outlet Connection Approval Approval No. Part No.

: BRASS ALLOY 352, Stainless Steel : Steel Ball Check : W 21.8 X 1/14" DIN : 3/4" BSPT : VdS : G 304025 Typ 3/4" : ING001



ELECTROMAGNETIC RELEASE DEVICE FOR SERIES F1120 Material

: G 314002

ING065

Body Actuating Pin Nominal Voltage Nominal Current Valve Connection Approval Approval No.

: Brass, Stainless Steel : Stainless Steel : 24 Vdc : 1.2 A : M 42 x 1.5 : VdS



Part No.



DISCHARGE HOSE TYP DN12

Material	:	Synthetic rubber Hose with 2 high tensile steel wire braids reinforcement
Max. Working Pressure	:	280 Bar
Temperature Range	:	- 15°C to + 50°C
Hose Connections	:	W 21.8 x 1/14" DIN
Approval	:	VdS
Approval No.	:	G 304026 Type DN12
Part No.	:	ING008

PILOT LINE HOSE TYP DN08

: Synthetic rubber Hose with 2 high tensile steel wire braids reinforcement
: 350 Bar
: - 15°C to + 50°C
: 1/8" BSP
: 1/8" BSP
: W 21.8 x 1/14" DIN
: 1/8" BSP
: VdS
: G 304027 Typ DN08
: ING010 - Hose, ING022 - Adapter





Inertec System Components



80 LITER INERTEC CYLINDER Material

: Chronium Molybdenum Steel : 15.8m³ / 22.2kg – IG55 15.2m³ / 17.5kg – IG100

- 17.1m³ / 27.4kg IG01
- Filling Pressure : 200 Bar @ 20°C
- Test Pressure : minimum 300 Bar
- Approx. Weight : 115 kg (Tare), 137 kg (gross) Standard of

Colour

Cylinder

Filling

Coloui

Part No.

Standard of Compliance

- : DOT 3AA / TPED 1999/36/ CS or according to International Standards : Red or Grey according to National Regulation
- : ING014-CS-080



DN50 CYLINDER MANIFOLD Material Pipe : 2" Sch.160

5L seamle Check Valve Connection: 3/4" BSPT Max. Working Pressure : 240 Bar Test Pressure : 360 Bar

: 2" Sch.160 ASTM A106B or API 5L seamless pipe, galvanized : 3/4" BSPT

Max. Working Pressure : 240 BarTest Pressure: 360 BarAproximate Weight: 11.5kg / mPart No.: ING038-CS-002 to ING038-CS-019



PRESSURE REDUCER UNIT DN50

Wateria		
Flange	:	Gun Metal Bronze / Carbon Steel
Orifice Plate	:	Brass
Туре	:	Orifice Restriction
Max. Working Pressure	:	240 Bar
Test Pressure	:	375 Bar
Approval No.	:	G 305006
Part No.	:	ING009-ST-XXX-NA



INERTEC SELECTOR / DIRECTIONAL VALVE

Туре	: Ball valve GB2: 2way;
Body	: round
Material	: A105
Size	: GB2: from DN32 up to DN50
O-Rings	: NBR, FPM, MQV, EPDM, FFKM
Operating Pressure	: GB2: 350 Bar
Temp Range	: -10°C to + 100°C depending on
	seal materials selected
Air for actuator	: 5.6 Bar

: ING027

Part No SOLENOID VALVE

Operating voltage Part No.

: 24VDC,0:75A : CO2003-AD6112



DISCHAGE NOZ	ZLE TYP	1/2"	AND	TYP	1"
Material					
Dedu	Drago				

Body	: Brass
Orifice Plate	: Brass
Max. Area Coverage/	
Nozzle	: 30m² (5m (L) x 6m (W))
Max. Height	: 5m
Working Pressure	: 20 Bar (min), 60 Bar (max)
Available Orifice Diame	eter
1/2" Nozzle	: 3mm - 10mm (in 1mm increments)
1" Nozzle	: 11mm - 20mm (in 1mm increments)
Approval	: VdS
Approval No.	: G 305005
Part No.	: ING002 - 1/2" Nozzle, ING004 - 1" Nozzle



INERTEC PRESSURE GAUGE

Type: Spring TutRange: -15°C to -Connection to Valve: M 10 X 1Approval:Type F052No. Part No.:ING068

: Spring Tube Manometer Temperature : -15°C to + 50°C : M 10 X 1 :Type F0520005 :ING068



Approval

The **iner** gas extinguishing system is approved by VdS Schadenverhütung (Loss Prevention) Germany to VDS 2452 Gas Extinguishing System Requirements and Test Methods.

All **iner** gas extinguishing system equipment such as valve, actuator, pressure reducer, nozzle, discharge hose and check valves are certified by VdS.

VdS is a company of the German Insurance Association Gesamtverband der Deutschen Vesi cherungswi rtschaft (GDV). For further details visit www.vds.de







Inertec Detection System



Item	Part No.	Description	Material	Approval	Approval No.
1	FAS-EP203	Gas Extinguishing Panel EP203	Metal & Plastic	LPCB	176 C
2	FAS-EA318	Optical Smoke Detector EA318	ABS	LPCB	512a
3	FAS-EA323	Heat Detector c/w Base EA-323	ABS	LPCB	512d
4	FAS198	Battery - Sealed Lead Acid	Plastic	UL	BAZR2.MH25408
5	FAS194	Alarm Bell	Metal	UL	S3565
6	FAS260	Manual Key Switch	Plastic	N/A	N/A
7	FAS258	Abort Switch	Plastic	N/A	N/A
8	FAS251	Double Flashing Light	LED	N/A	N/A
9	FAS253 / FAS254	Fire Curtain c/w solenoid tripping device	Fabric / Stainless Steel Wire	N/A	N/A
10	FASKSB15	Evacuate Sign	Mild Steel	N/A	N/A



Detection System Components



: 230 VAC, 50/60 Hz

: 24 VDC NOMINAL

: 21-28VDC, FUSED@200mA

: 6 (FIRE, LOCAL FIRE, EXTRACT FAN,

1ST STAGE, 2ND STAGE, FAULT)

: 6 (Manual Release, Flow Switch,

: 467mm x 293mm x 29mm (lid)

Low Pressure, Mode, Hold, Abort)

439mm 276mm x 70mm (back box)

EN 4-2: 1997 + A1: 2006 + A2: 2007 EN 54-4: 1997 +A1: 2002 + A2: 2006

: 3A @ 230 VAC

: 2 x 12VDC 7AH

: 30 VDC, 1A MAX.

: 21-28VDC, RATED

: AT 1A FOR 5 MINS.

: EN 12094-1: 2003

: -5°C TO 50°C

: LPCB

: 176C

SOUNDER

: FAS-EP203

Operating Voltage : 24VDC

Sound output : 106 dB(A) at 1 mtr Min current comsumption 20mA

: 0.7A

: 20 NOS.

GAS EXTINGUISHING PANEL

Main Supply Voltage Internal Power Supply Max. Output Current **Battery Requirement** Battery Charge Current Sounder Output Rating No. Of Auxilary Outputs

Relay Contact Rating Maximum Detectors In Each Zone **Extinguishant Release** Output No. Of Monitored Inputs And Type

Operating Environment Dimensions

Standard

Approval Approval No. Part No.



FIRE



Code No.

GAS RELEASE KEY-SWITCH

: FAS-4A-CS100

: FAS-4A-Y04-24VDC

: 100mm X 100 mm X 90mm Code No. : FAS260-LA-28V-RD : FAS260-PS-28V-RD

6" ALARM BELL

Operating Voltage : 24VDC Alarm Current 0 02A Decibel 10ft : 92db Code No. : FAS-194

EVACUATE SIGN

Current rating : 220mA Dimension : 260(W)mm x 105(H)mm x 60(D)mm Indication Red Mild steel with wrinkle black Enclosure Part No. : FASKSB-15



DISCHARGE INDICATOR

Operating Voltage : 24 VDC / 75mA per light on Dimension : 190mm x 90mm x 110mm : FAS-251 Code No.

OPTICAL SMOKE DETECTOR (EN-54)

Voltage Dc Standby Current (Max) (µA) Alarm Current (Max) Surge Current Start Up Time (Max) Permissable Current (Max) Emitting Duty Temperature Range Humidity

Materials Of Body Colour Of Body Approval Approval No. Part No.

: 12 - 35V : 35 µA : 70mA : 40µa : 60 sec : 80mA : 3 - 5 sec : -10°C TO + 50°C : 0 TO 95% RH, NON CONDENSING : ABS : White : LPCB : 512a

: FAS-EA-318-2



RATE OF RISE HEAT DETECTOR (EN-54)

Heat Sensor Setting Voltage Dc Start-Up Current (µA) Standby Current (µA) Alarm Current (Max) Max Rms. Ripple Rate Of Rise Temperature Range Materials Of Body Colour Of Body Approval Approval No. Part No.

100

: 135°F(57°C)/>20°F (6.7°C) / MINUTE : 10 - 35V : 170µa : 42µa : 60mA @ 24V : 25% of DC INPUT : > 20°F (6.7°C) / MINUTE : + 32°F TO -100°F (0°C TO - 38°C) : ABS : White

: LPCB

: 512d : FAS-EA-323-2



BATTERY - SEALED LEAD ACID

Nominal Voltage Capacity Dimension (L X W X H) Weight Approval

: 12V : 7AH MIN AT 20 HOURS **DISCHARGING TIME** : 15 X 60 X 90(MM) : MAX. 2.4KG : UL APPROVED : FAS198-12V-7AH

ABORT SWITCH

Part No.

Operating Voltage : 2 Amps @ 28VDC Code No. : FAS-258



FIRE CURTAIN

Actuated by 24VDC, 0.5Amp tripping device. Install on top of louvers or opening. Code No. FAS253-FG-XXX-WH FAS254-NO-24V-RD

Description Fire curtain c/w steel cable Box c/w solenoid tripping device





Detection System Approval

The **iner** detection system components are approved by various bodies such as LPCB, VdS, UL/FM & etc.



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Room Integrity Test



Blower Door

Systems







Digital **Manometers**

Accessories

Software

NFPA 2001 requires an enclosure Integrity test to check for air leaks and holding times as part of the system acceptance procedure. This test can be carried out using a calibrated blower door fan test unit by certified tester.

Inertec System Application

Inertec fire suppression system protect enclosed areas where there is aneed for quick reaction to fire, where people may be present, where fire may strike anytime or where damage from conventional agents cannot be tolerated. Some examples of such areas are:

- Power Generation, Transmission & Distribution Facilities
- Power Plant
- Þ Substation control room
- Telecommunications Facilities
- Telephone Exchanges
- Communication Centres
- Commercial & Institutional Facilities
- Bank Vaults & Documents Storage
- Medical Diagnosis Rooms
- Aviation & Marine Applications

Data Centres & Industrial Applications

- Computer Rooms & Electronics
- Tape & Back Up Storage
- Pharmaceutical / Medical Facilities

- Power Transmission
- Substation switch room
- Central & Remote Cellular Sites
- Satellite Ground Stations
- Art Galleries & Achieves Storage
- Museums & Libraries
- Insurance Industry
- Server Rooms & Process Control Rooms
- Laboratories & Clean Rooms
- Military Installations





Award-Winning Global Supplier



The BrandLaureate Awards 2009-2010





Silver Award Best Use of Media



Platinum Award Global Market



Silver Award Community



The BrandLaureate Awards 2007-2008



Star Outstanding Business Awards 2010



Malaysia Power Brand 2010



Asia Pacific Super Excellent Brand 2010

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global research, manufacturing, sales and service:



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