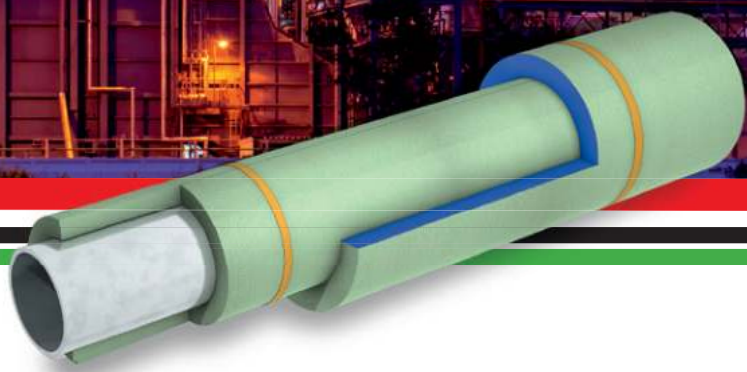




I N N O V A T I O N

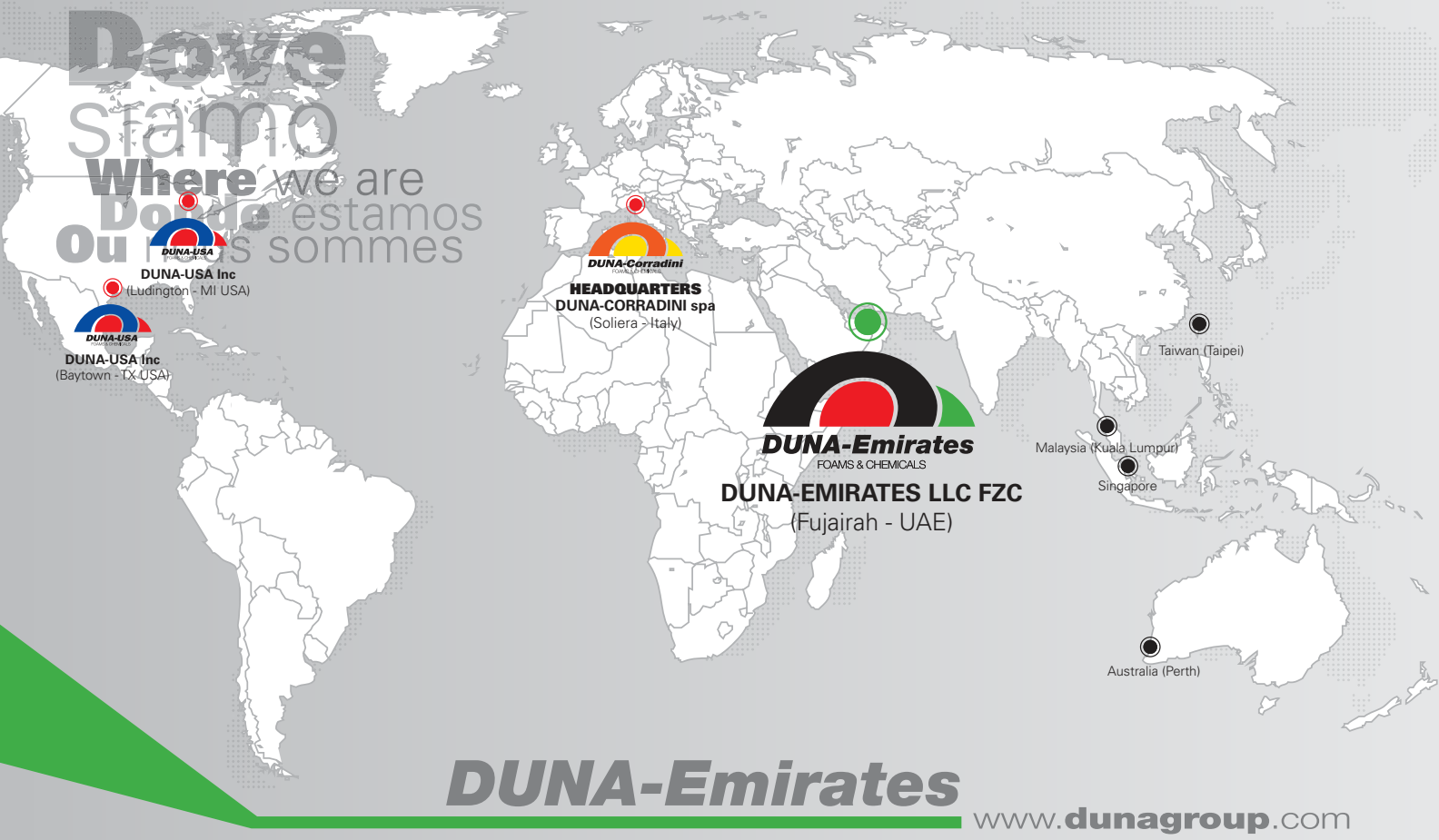
P R O V I D E R S

INNOVATION PROVIDERS



INDUSTRIAL INSULATION





● = warehouse logistic centers

DUNA-Emirates LLC FZC manufactures polyurethane foam in blocks and calibrated sheets, and represents and sells all products of DUNA-Group. Take a look to the complete range here: <https://www.dunagroup.com/emirates>

CORAFOAM

PUR Foams

HFCs/CFCs/HCFCs-free - **ODP=0 - GWP<10**

CORAFOAM®	Density (kg/m³)	Initial thermal conductivity at 10°C (mW/mK)	Parallel compressive resistance at 23°C (MPa)	Fire behaviour	Operating temperatures (°C)
PB 35 P	35	20,7	0,21	DIN 4102 Class B2 EN ISO 3582 mm ≤10/s ≤10 ASTM D 3014 %Ret.>90	-200/+100
PB 40 P	42	20,7	0,30		
PB 45 P	45	20,8	0,31		
PB 50 P	50	20,5	0,36		
PB 60 P	60	21,2	0,48		
PB 80 P	80	23,0	0,64		
PB 120 P	120	27,0	1,18		



PUR Foams

HFCs/CFCs/HCFCs-free - ODP=0 - GWP<10

CORAFOAM®	Nominal Density (kg/m³)	Initial thermal conductivity at 10°C (mW/mK)	Parallel compressive resistance at 23°C (MPa)	Fire behaviour	Design temperature (°C)
HPT 40	40	20,3	0,35	DIN 4102 – B3 EN13501/EN11925 Euroclass F	-50/+100

PIR Foams

HFCs/CFCs/HCFCs-free - ODP=0 - GWP<10

CORAFOAM®	Density (kg/m³)	Initial thermal conductivity at 10°C (mW/mK)	Parallel compressive resistance at 23°C (MPa)	Fire behaviour	Operating temperatures (°C)
PB 35 M1 HC	35	20,9	0,250	NF 92 501 Class M1 DIN 4102 Class B2 EN ISO 3582 mm ≤10, s ≤10 ASTM E84 FSI <25, SD 135 ASTM D3014 %Ret>90 UL94 Class HBF EN 13501/EN 11925 Euroclass E	-200/+120
PB 40 M1 HC	42	20,9	0,320	NF 92 501 Class M1 DIN 4102 Class B2 EN ISO 3582 mm ≤10, s ≤10 ASTM E84 FSI <25, SD 250 GOST 302444-94 Class G1 ASTM D3014 %Ret>90 UL94 Class HBF EN 13501/EN 11925 Euroclass E	-200/+120
PB 45 M1 HC	45	20,9	0,370	NF 92 501 Class M1 DIN 4102 Class B2 EN ISO 3582 mm ≤10, s ≤10 ASTM E84 FSI <25, SD 300 ASTM D3014 %Ret>90 UL94 Class HBF EN 13501/EN 11925 Euroclass E	-200/+120
PB 50 M1 HC	50	20,9	0,420	NF 92 501 Class M1 DIN 4102 Class B2 EN ISO 3582 mm ≤10, s ≤10 ASTM E84 FSI <25, SD 195 ASTM D3014 %Ret>90 UL94 Class HBF EN 13501/EN 11925 Euroclass E	-200/+120

**CRYOGENIC
PU ADHESIVES:**

Durable and lasting one- and two-parts polyurethane adhesives to bond:

- Different layers of PIR, PU, cellular glass, mineral wool
- Insulation to metal surfaces
- Panels to coated tanks.

Operating temperature: - 165° C/ + 93° C.

Solvent-free.

Flexible (to accommodate thermal contractions).

Available from IBCs to cartridges.



MOST RELEVANT SUPPLY RECORDS

PROJECT NAME	ENGINEERING	TYPE	COUNTRY	YEAR
*Tangguh LNG	KBR-JGC	LNG Liquefaction	Indonesia	2007, 2012
Ras Gas III T6&7	Chiyoda-Technip	LNG Liquefaction	Qatar	2008-2009
Skikda LNG	KBR-JGC-Entrepose	LNG Liquefaction	Algeria	2009-2012
Gorgon LNG	Kellogg-KBR-JGC	LNG Liquefaction	Australia	2011-2013
*JBOG RECOV PJ	Chiyoda-Technip	Gas processing	Qatar	2012-2013
*Donggi Senoro	JGC	LNG Liquefaction	Indonesia	2013
Dunkerque LNG	Techint Sener	LNG Regasification	France	2013-2014
*Ichtys LNG	AMEC-JKC	LNG Liquefaction modules	China	2014-2017
*Tianjin LNG	Chengda	LNG Regasification	China	2014-2016
*Barzan Onshore	JGC	Gas processing	Qatar	2014
*PNG LNG	Chiyoda-JGC	LNG Liquefaction	Papua Nuova Guinea	2014
*Brunei LNG	BNLG	LNG Liquefaction	Brunei	2014
*Petronas LNG	Petronas-JGC	LNG Liquefaction	Malaysia	2014
*Sadara Chemical Complex	DOW-KBR	Ethylene - Petrochemical	Saudi Arabia	2014
Etileno XXI	Technip-Braschem-Idesa	Ethylene - Petrochemical	Mexico	2015
Mundra LNG	IHI-Toio	LNG Regasification	India	2015
Prelude FLNG	Technip-Samsung	Floating LNG Liquefaction	South Korea	2015-2017
YungAn LNG	CTCI Corporation	LNG Regasification	Taiwan	2015
Fluxys LNG	Fluor	LNG Regasification	Belgium	2006-2015
Formosa	CTCI Corporation	Ethylene - Petrochemical	Taiwan	2015
Reliance Jamnagar Project J3	Siemens	Ethylene - Petrochemical	India	2015
Dangote Fertilizer Project	Paresa-Saipem	Ammonia/Urea	Nigeria	2015
Cameron LNG	Chiyoda and CB&I	LNG Liquefaction	USA	2016
Sakhalin LNG	Chiyotek (Chiyoda-Toyo)	LNG Liquefaction	Russia	2006-2016
*RAPID RGT2	Samsung C&T, Science-Tech Solutions	LNG Regasification	Malaysia	2016
*RAPID RGTF, PDT2	Chiyoda, Dialog	Ethylene - Petrochemical	Malaysia	2017
*RAPID SCC Steam Cracker Complex	Toyo Engineering Corp	Ethylene - Petrochemical	Malaysia	2017
ARZEW LNG	Saipem SPA/Snamprogetti/Chiyoda	LNG terminal	Algeria	2017
*Liwa Plastics Industries Complex	CB&I-CTCI	Ethylene - Petrochemical	Oman	2018
Coral South Floating LNG - Area 4	TechnipFMC, JGC Corporation, Samsung Heavy Industries	Floating LNG liquefaction	Korea	2018
Hamina LNG	Wärtsilä	LNG import terminal	Finland	2019
*JG Summit Petrochemical Complex	Fluor	Ethylene - Petrochemical	Philippines	2019
Freeport LNG - PTF Unit	McDermott/Chiyoda	Pre-treatment facility	USA	2019
*PTT-GC ORP project	SAMSUNG	Ethylene - Petrochemical	Thailand	2019
*GC-GV MEG FEED	CTCI McDermott Integrated (CMI)	Ethylene - Petrochemical	China	2019
*Tangguh LNG Expansion Project - TEP	KBR-JGC	LNG Liquefaction	Indonesia	2020

***Supplied by DUNA-Emirates**



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