

Recommended products for compressor cleaning.

The following products are tested for compressor cleaning in SGT-500, SGT-600, SGT-700 and SGT-800 gas turbines.

Cleaning agents

The cleaning agents in table 1 may be used for off-line cleaning in accordance with relevant operation and maintenance instructions. These products meet the requirements as specified in seller's K-standard, K-8962-54 and K-8962-55.

Cleaning agents	Manufacturer
Turbotect 927,	Turbotect AG, Postfach 1411, Badstrasse 15 (Mäderhof),
solvent based	CH-5401 Baden, Switzerland
Turbotect 950,	Tel. +41 56 200 50 20, Fax +41 56 200 50 22
water based	http://www.turbotect.com
Turbotect 2020,	
water based	
ZOK 27,	Airworthy Ltd., Elsted, Midhurst, W. Sussex,
water based	GU29 0JT, England
	Tel. +44 1730 811920, Fax +44 1730 811930
	http://www.zok.com
Fyrewash F1,	Rochem Technical Services (Europe) Ldt., 11 Sun Valley
solvent based	Business Park, Winnell Close, Winchester, Hampshire SO23 0LB
Fyrewash F3,	Tel. +44 1962 890089, Fax +44 1962 890090
water based	http://www.rochemltd.com
Turbo-K,	FP Turbomachinery Consultants GmbH, Wiesenstrasse 57,
water based	79312 Emmendingon, Germany
	Tel. +49 7641 55346, Fax +49 7641 55319
	http://www.fpturbo.com/
Conntect 5000,	Conntect Inc., 332 Federal Road, Brookfield, CT/USA
water based	Tel. +1 203-775-8445, Fax +1 203-775-9339
	http://www.conntect.com
Protoklenz GT,	Minco UK Ltd, Mr. Bob Gronski, 6 Castle Rise, London Road,
water based	Stroud GLOS GL5 2 AW, England , Tel. +44 1453 764 149,
	Fax +44 1453 764 008

Table 1. Cleaning agents.

SE-612 83 FINSPONG, Sweden	Siemens Industrial T	
Based on: W491023E:J Ref.des.:	Author	GFO 2003-03-24 Ja
Rer.des.: Doc. des.: BU / SGT-500(MA FF, MA CS, MD, PG STD, PG EX), SGT-600(MD, PG STD, PG EX), SGT- 700(MD, PG STD, PG EX), SGT-800(PG STD)/&EC102	Appr. Doc. Kind Language	Technical spec

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SGT-500, SGT-600, SGT-700, SGT-800	Rev. ind. K

Anti-freeze agents

Tested anti-freeze agents are shown in table 2 and table 3. Anti-freeze agents have to fulfil the same requirements concerning purity and stickiness properties as the cleaning agents.

The anti-freeze agent in table 2 may be used both for off-line and on-line washing of SGT-500, SGT-600, SGT-700, and for off-line washing of SGT-800 turbines. The anti-freeze agent can be used down to -10° C (14 °F) and it is compatible with both water and solvent based cleaning agents in table 1.

Anti-freeze agent	Manufacturer
Turbotect ARF-301,	Turbotect AG, Postfach 1411, Badstrasse 15 (Mäderhof), CH-
	5401 Baden, Switzerland
	Tel. +41 56 200 50 20, Fax +41 56 200 50 22
	http://www.turbotect.com

Table 2. Anti-freeze agent.

Table 3. Anti-freeze agent.

Anti-freeze agent	Manufacturer
GTC Frostex	Skyline Technologies BV, Mient 201, 2564KL, Den Haag,
	Netherlands
	Tel. +31 70 3232060, Fax +31 70 3232635

The anti-freeze agent in table 3 may be used only for off-line washing. The anti-freeze agent is a "ready-to-use" mixture of water, cleaning agent (ZOK 27), and anti-freeze. The anti-freeze agent can be used down to -10° C (14 °F) and it is compatible with ZOK 27.

If the operator uses an organic solvent as anti-freeze agent like alcohol's (methanol, ethanol or isopropanol), he has to adhere to local regulations concerning operational security. Seller takes no responsibility for inaccurate explosion protection for product incompatibilities.

General information and recommendations

The recommendation of products must not be considered as an acknowledgement of the product ability to efficiently clean the compressor blading, but is a statement of its compliance with requirements regarding purity, operability and environmental effects.

Seller reserves the right to withdraw an approval for any product in the above given lists, in case of quality failure of commercial deliveries (which are considered out-of-specification), deviations from submitted and approved specifications or adverse effect on gas turbine operation.

Seller recommends to use water based products. Only for persistent organic deposits, a solvent-based product may be applied. The recommendations of the supplier for proper concentration of the product and waste treatment shall be followed.