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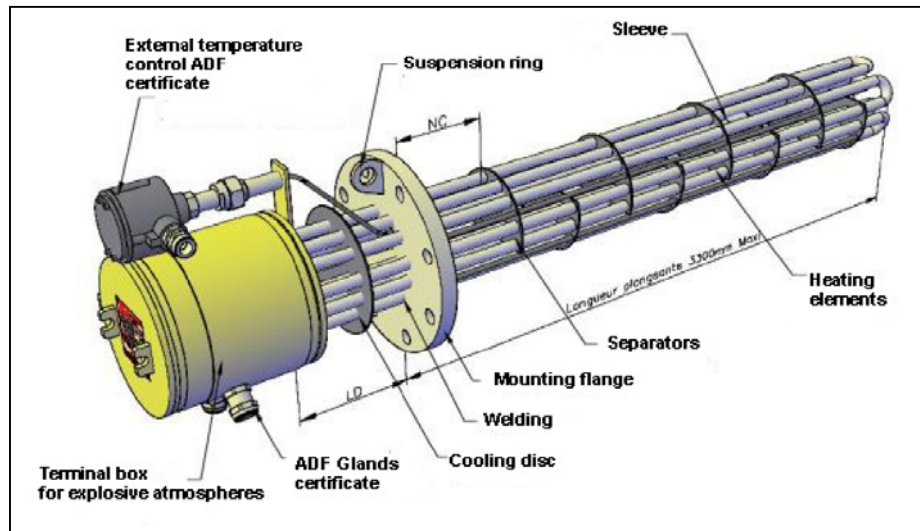
CT- 100.31E

IMMERSION HEATERS FOR EXPLOSIVE ATMOSPHERES ATEX

The immersion heaters, flange, flameproof are used for heating and temperature maintenance of large volumes or for heating fluids in circulation, such as water, heavy fuel oil, thermal fluid, air or gases in hazardous areas. They can be mounted either in vats, tanks, boilers, superheaters step and a heating system is optimal for offshore and onshore processes.

The terminal boxes are used, developed specifically for explosive atmospheres, Increased safety "e" (EN60079-7) or wrapped explosion "d" (EN60079-1) associated with temperature control by (EN60079-0) allows installation of equipment in hazardous area (Zone 1 and 2) Gases of A-B-C can be used in environments from -50 to 40 ° C

The flanged immersion heaters are constructed with shielded electrical resistance, usually forked, welded, TIG. The specific load (W/cm²) is adapted to the conditions. The quality of stainless steel tubes 1-4541 (AISI 321) 1-4404 (AISI 316L) 1-4828 (AISI 309) Incoloy 800-825, Inconel 600 is chosen according to the environment and the working temperature. For working temperatures > 110 ° C terminal box moves to ensure the protection of electrical connections



Application	Temperature °C	Brazing.	Welding	Copper	AISI 321	AISI 316L	AISI 309	Incoloy 800	Incoloy 825	Inconel	W/cm ²
Sulphuric acid > 10%	<20	No	Si			■					6
Air / Gas	300	Si	Si		■						6
Air / Gas	900	No	Si				■				2
Tar		Si	Si		■						<0,7
Calcination	530	No	Si					■			2,4
Water + MEG <30%	40	No	Si			■					6
Water + Sosa <30%	80	No	Si			■					6
Boric acid		No	Si			■					8
Water boiler	250	Si	Si			■			■		15
Chlorinated Water	90	Si	Si						■		15
Seawater	80	Si	Si					■			12
Demineralized water	95	No	Si			■		■			6
TH sanitary water <25	80	Si	Si	■					■		8
Light Diesel Fuel	60	No	Si		■						3
HFO Heavy Fuel	125	No	Si			■					1,5
Natural Gas	15	No	Si					■			5,5
Natural Gas	65	No	Si					■			3,2
Mineral oil	90	Si	Si		■						2
Oil Heat	350	Si	Si		■						6
Vegetable oil	200	Si	Si		■						6
Bleach	60	No	Si		■	■					6
Oxychlorination	520	No	Si					■			1,4
H2 reduction	536	No	Si					■			3,8
Hydrocarbons Regeneration	323	No	Si					■			4,3