

Process: **Proco – E-CTFE (Halar®)**

- Typical features:**
- **Maximum resistance to chemicals**
 - **High layer thickness**
 - **Mechanical machining possible**
 - **Extraordinary electrical properties**
 - **Anti-adhesive surface**

E-CTFE is extremely resistant to almost all chemicals, acids, alkalis and organic solvents. There is no known solvent which attacks E-CTFE below 121°C (film test).

For contact with food and other sensible exercises: Proco - E-CTFE (HALAR®) DA; according to FDA 21CFR 177.1380 (a)(4).

Areas of application:

Apparatus construction: columns, reactors, pumps, valves, chemical tanks, mixers, temperature sensors, centrifuges, laboratory equipment, water treatment units (ozone-resistant), fittings, highest-purity water plants

Mechanical engineering: rollers, vats, mixers, worm conveyors, moulds, slides, insulations, medical instruments, drying chambers, components for the semiconductor industry

Properties:	Characteristic:	thermoplastic fluoropolymer
	Primer:	duroplastic
	Colour: standard: (technical using)	grey-black other colours on request
	Colour: type DA (foodcontact):	perly white
	pH range:	1 – 14
	Layer thickness:	400 – 1000 µm
	Shore hardness:	D 75
	Maximum permissible heat load, dry:	150 – 180°C
	Diffusion resistance:	type DA: very good
	Melting point:	245°C
	Brittle temperature:	-76°C
	Specific weight:	1.68g/cm ³
	Pore analysis:	according to DIN 55670 A
	Thermal conductivity:	0.13 kcal/m h°C
	Radiation resistance:	2 x 10 ⁸ Rads
	Water absorption:	< 0.1%
	Pre-treatment:	anti-corrosive sandblasting (DIN EN ISO 12944-4)

The planning and manufacture of coatings are subject to the general instructions of DIN EN 14879-1

