



C.P.A. S.R.L.

GUIDE FOR CLEANING AND MAINTAINING STAINLESS STEEL



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Characteristics

Although stainless steel is a corrosion-resistant material, without additional protection on exposed surfaces, certain maintenance and cleaning measures are necessary to ensure long-term durability and aesthetic appearance.

The purpose of this guide is to explain to installers and owners how to clean surfaces in order to optimize the anti-corrosive properties of stainless steel.

Any residues (lime scale, chlorides, etc.) or other harmful substances that might deposit on accessories must be removed, as they could cause pitting corrosion.

The frequency of cleaning depends on the environmental and atmospheric conditions in which the pool is installed and the quality of the steel.

Specific products containing phosphoric or nitric acid should be used for residue removal.

Products should be applied with nylon brushes (and not iron ones) and then rinsed with plenty of clean water.

This ensures that the products remain in perfect condition over time.

AISI 304 stainless steel offers excellent anti-corrosive properties provided that the chemicals dissolved in the water are properly dosed, especially with regard to chlorine residues (chloramines).

Conditions are more critical for indoor pools, as there is a higher concentration of corrosive fumes generated by chemicals. For this reason, it is advisable to clean the accessories more frequently.

In more aggressive environments, such as coastal areas or highly industrialized areas, and for pools with saltwater chlorinators, it is preferable to use accessories made of AISI 316 stainless steel, as they have a higher concentration of nickel and contain molybdenum.

Environment	Cleaning Frequency		
	6 months	3 to 6 months	1 to 3 months
Rural	AISI 304		
Urban	AISI 316	AISI 304	
Industrial		AISI 316	AISI 304
Marine		AISI 316	AISI 304

Cleaning products

The following should not be used:

- Products containing chlorides, particularly hydrochloric acid;
- Bleaches containing hypochlorites (in case of accidental use, immediately stop any leakage of the product and clean with water);
- Silver-based paints.

To avoid compromising the stainless properties of the steel, ensure that cleaning and maintenance tools have not been previously used on other types of steel, such as carbon steel. Equipment dedicated to stainless steel should be kept separate from other tools and used only for this purpose.

Use specific cleaning products for stainless steel available on the market.

Essential recommendations and guidelines

- All stainless steel accessories must be connected to a grounding line;
- The use of stainless steel accessories in the presence of salt water and electrolytic devices is always discouraged.
- In the presence of electrolytic devices for pool water disinfection, always connect all stainless steel accessories to a common sacrificial anode: periodically check the wear of the anode and replace it as needed.
- Avoid placing chemicals and aggressive products near stainless steel accessories to prevent corrosion and staining from splashes. This applies to products directly added to the pool and substances used for cleaning the edges and surrounding floor. In case of accidental splashes, wash the accessory with plenty of clean water and dry it.
- Ensure that large amounts of dust, salt, or cement are not present near the accessories and that they do not come into contact with less noble metallic elements (especially iron), as this would cause corrosion.
- Some materials used during pool construction can damage the accessories: do not install stainless steel products during pool construction, but only at the end and once the area around the pool has been completely cleaned. If this is not possible, rinse the stainless steel accessories with plenty of water and dry them.
- Stainless steel accessories, if not installed immediately, must be properly wrapped and protected from any substance that could create a corrosive environment.
- Handle accessories carefully during installation, avoiding knocks or scrapes against other objects to prevent creating spots vulnerable to corrosion.
- Once the accessories (especially ladders) are installed in the pool, they should only be used for their intended purpose and never for adding chemicals to the water.
- Regularly monitor the condition of the accessories: upon the appearance of halos or deposits, perform an immediate extraordinary cleaning as previously indicated in this document.

Note:

- Le informazioni contenute nel presente documento possono variare a discrezione del redigente, senza preavviso, contestualmente alle modifiche del prodotto in oggetto al presente documento: sarà onere del cliente all'atto dell'ordine verificare la persistente corrispondenza del prodotto alla scheda informativa.