



TIB Stanal CL

TIB STANAL CL is an aqueous, acid additive for the sulfuric acid degreasing and etching bath for the preparation of substrates made out of aluminium alloys before tinning with **TIB STANAL** products.

Product Data

Commercial name	TIB STANAL CL
Density	1.2 kg/l approx.
PH value	< 1
Solubility	miscible in water and most diluted acids; reacts vigorously with alkaline solutions
Delivery form	aqueous solution
Colour	colourless
Odour	typical

Composition

TIB STANAL CL is an aqueous, strong acidic composition based on good biodegradable, surface active substances and as non toxic classified, complex fluoride components.

Specification

TIB STANAL CL	99.9 % min.
Other elements	< 0,1%

Application

Automotive Industry

- ♦ additive for the sulfuric acid **TIB Stanal** etching as preparation of aluminium steel bearings before tinning with **TIB Stanal** products.

Electroplating Industry

- ♦ additive for the sulfuric acid **TIB Stanal** etching as preparation of aluminium workpieces before tinning **TIB Stanal** products.

Storage

TIB STANAL CL has a shelf life of min. 1 year if stored correctly in dry areas and in its original closed packaging.

Packaging

Standard packaging

PE can	
volume [l]	30
gross/net [kg]	37.5/36

protected PE container on pallet

volume [l]	1.000
gross/net [kg]	1.083.5/1.000

Special advices for security

Information concerning

- ♦ classification and labelling according to the regulations governing transport and hazardous chemicals.
- ♦ protective measures for storage and handling
- ♦ safety measures in case of accident and fire
- ♦ toxicity and ecological effects

is given in our material safety data sheets.

Customs Tariff Number

2811 1980