

# Steel with metallic coating used for packaging (Tinplate)

## **1. SCOPE**

This section deals with steel <sup>1)</sup> with metallic coating and objects made entirely of steel with metallic coating which as finished products are intended to be in direct contact with foodstuffs, food products and beverage for human and animals consumption.

The products mentioned in sheets "Steel excluding packaging" and "Steel and Stainless Steel with metallic coating (unpackaged)".

The applications examples are the following elements:

- drink cans,
- cans for tinned food,
- packaging for dry foodstuffs,
- aerosol cans.

The material chosen must be in accordance with the term of use.

## **2. RESTRICTIONS OF USE**

When consumers use them, the restrictions of use relating to contact with very acid products may be indicated.

## **3. DEFINITION OF PERFORMANCE CRITERIA FOR FOOD CONTACT**

### **3.1 Texts to be used**

#### **3.1.1 Regulatory texts**

- Order of 28th June 1912 amended about the coloration, conservation and packaging of foodstuffs and drinks
- Order of 15th November 1945 setting the list of materials likely to be used without adverse effect on public health in the manufacturing of measuring instruments.

#### **3.1.2 Other texts**

- Guidelines of the Council of Europe relating to metals and alloys intended to be in contact with food .
- NF EN 610 "Tin and tin alloys - Ingot tin"
- NF A 36-702 Steel for packaging – Flat steel products intended for use in contact with foodstuffs, food products and beverage for human and animals consumption – Steel coated with tin (blackplate or tinfoil).

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<sup>1)</sup> Definition according to NF EN 10020 "Definition and classification of grades of steel"

## 3.2 Criteria to be used

### 3.2.1 Steel Composition

The steel which makes up the support should meet the requirements specified in the sheet "Steel for packaging (Blackplate)".

### 3.2.2 Tin coating

The chemical composition of the tin used must comply with the regulations defined by EN 610 for the Sn 99.85 grade excepted for the lead content which shall be down to 0.010%.

### 3.2.3 Contents of the coating in undesirable elements

Looking for presence of lead, cadmium and arsenic.

## 4. ACCEPTABILITY LIMITS

Maximum contents of the coating in undesirable elements:

Pb < 0.010 %  
Cd < 0.010 %  
As < 0.030 %