

**SHEET METAL, CLASS III**

Date of issue: 01 Sept 1995

Modification: 08

Date of validity: 16 March 2017

**1. PURPOSE OF USE**

It is used as an insert in the production of grey and, conditionally, nodular cast iron in cupola and electric furnaces.

**2. GENERAL QUALITY REQUIREMENTS**

Conformity with the quality specification.

**3. PROPERTIES OF MATERIAL**

Sheet metal must not contain any waste of other non-ferrous materials (aluminum, bronze, bearing alloys). The size of sheet metal pieces may be max. 400 x 200 x 40 mm, and without any non-metallic impurity (oil, mud, wood, etc.) The size of packages for electric furnaces may be max. 500 x 400 x 400 mm, while the size for cupola furnaces may be max. 300 x 300 x 200 mm. The thickness of sheet metal, which is not pressed in packages, must be at least 1 mm and not smaller than 30 x 30 mm.

**4. PACKAGING, PACKING AND TRANSPORT**

Sheet metal is to be delivered in bulk by railway wagons or truck.

**5. WARRANTY OF QUALITY**

Material is classified according to the chemical analysis conducted by the Livar laboratory.

**6. MANNER OF ACCEPTANCE**

Sheet metal or packages will be accepted by the acceptance control of LIVAR.

**7. CONTROL PROCEDURE**

Control procedure will be sampled (2 samples from each shipment) for the verification of chemical composition of sheet metal and the visual inspection regarding the purity and size of sheet metal packages and cut sheet metal.

**8. MANNER OF MEASUREMENT****QUALITY CHARACTERISTICS, VALUE, MANNER OF MEASUREMENT**

NAME: SHEET METAL, CLASS III

CODE: 9100901, 9100902, 9100903

QUALITY CHARACTERISTICS	VALUE	MANNER OF VERIFICATION
Mn content	max. 1.40 %	Labor. analysis
Cr content	max. 0.50 %	Labor. analysis
Cu content	max. 0.80 %	Labor. analysis
Si content	max. 2.00 %	Labor. analysis
S content	max. 0.08 %	Labor. analysis
P content	max. 0.20 %	Labor. analysis
Piece size, sheet metal	max. 400 x 200 x 40 mm min. 1x 30 x 30 mm	Visual control (measuring)

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**9100901 – class 1** – Shipboard and pantograph with heavy bulk density.

The minimum thickness of the material: 10 mm these materials do not include profiles, tubes, steel wheels, bearings, axles and brake calipers.

**9100902 – class 2** – A mixture of shipboard, pantograph, pieces of wire (building), profiles, tubes, steel wheels and screws.

These materials do not include bearings, axles and brake calipers. The content of colored material can be maximally 20 %.

**9100903 – class 3** – Shredder, it must not contain dust or scrap textiles

This material does not include municipal waste (pressed cans).