

## **Rules for the Approval of Manufacturers of Materials**

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The additions are underlined and deletions stricken through.

## CHAPTER 2 - STEEL AND IRON PRODUCTS

### SECTION 1 - ROLLED STEEL PLATES AND SECTIONS

Modify items [2.4.1] and [2.6] as follows:

#### 2.4 Approval tests

##### 2.4.1 Extension of the approval tests

The extension of the test program, specified in [2.6] and [2.7], may be modified on the basis of preliminary information submitted by the Manufacturer.

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On the other hand, an increase in the number of casts and thicknesses to be tested may be required in the case of newly developed types of steel or manufacturing processes.

Concerning rolling process, in case of multi-source slabs or changing of slab manufacturer, the rolled steel manufacturer is required to obtain the approval of the manufacturing process of rolled steels using the slabs from each slab manufacturer and to conduct approval tests in accordance with 2.6 and 2.7.

A reduction or complete suppression of the approval tests may considered by Tasneef taking into account previous approval as follows:

- the rolled steel manufacturer has already been approved for the manufacturing process using other semi finished products characterized by the same thickness, steel grade, grain refining and micro-alloying elements, steel making and casting process;
- the semi finished products manufacturer has been approved for the complete manufacturing process with the same conditions (steelmaking, casting, rolling and heat treatment) for the same steel types.

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#### 2.6 Tests on base material

##### 2.6.1 Type of test on rolled steel plates and sections

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##### 2.6.2 Type of tests on semi finished products

The tests to be carried out for the approval of the manufacturing process of semi-finished products are:

- Chemical analysis. The analysis is to be complete and is to include micro alloying elements
- Sulphur prints.

In addition, for initial approval and for any upgrade of the approval, Tasneef will require full tests indicated in [2.6.1] to be performed at rolling mill on the minimum thickness semi finished product. In case of a multi-caster work, full tests on finished products shall be carried out for one caster and reduced tests (chemical analysis and sulphur print) for the others. The selection of the caster shall be based on the technical characteristics of the casters to be evaluated on case by case basis.

In addition to the requirements stated in Ch 1, Sec 1, [1.7.1], on the approval certificate the following information is to be stated:

- Type of products (ingots, slabs, blooms, billets)
- Steelmaking and casting processes
- Thickness range of the semi-finished products
- Types of steel (normal or higher strength).

## Amendments to Rules for the Approval of Manufacturers of Materials

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It is also to be indicated that the individual users of the semi finished products are to be approved for the manufacturing process of the specific grade of rolled steel products they are going to manufacture with those semi finished products.

### **2.6.2 2.6.3 Test specimens and testing procedures**

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### **2.6.3 2.6.4 Other tests**

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