

# TEKNİK ŞARTNAME/ TECHNICAL SPECIFICATION

# ALLOYING ELEMENT (Iron)

Döküman No Document No

: TS.057

İlk Yayın Tarihi Publish Date Rev. Tarihi

:-

 Rev. Date
 : 18.09.2013

 Rev. No:
 : 05

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## **REVIZYON TARIHÇESI/REVISION HISTORY**

Rev. No	Revizyon Tarihi Revision Date	Revizyon Açıklaması Revision Explanation		Revize Eden Revised By
1				
2	Evens.	THE CONTRACTOR OF THE CONTRACT		
3	14.10.2011 Change of people responsible with the issuing of this document does not change the acceptance criteria.			
4	Responsibility part has been updated.  Change of acceptance criteria for physical properties  Metallographic Properties part has been removed			
5	18.09.2013 General revision.		All	M.Dündar

### 1.0. KAPSAM/SCOPE

This specification identifies the required properties of Iron (Fe) master alloy added into the liquid aluminum in alloying practices of ASSAN Aluminium.

## 2.0. MALZEME TANIMI VE ÖZELLİKLERİI PRODUCT DESCRIPTION AND SPECIFICATIONS

The materials to be delivered shall meet the qualities stipulated in this specification.

### 2.1. Chemical Composition

Desciription	By mass	
	Fe	Al ve flux
%75 tablet	% 74-76	% 24-26
% 80 tablet	% 79-81	% 19-21

### 2.2. Physical Properties

No oxide deposits, swelling or any dirt (rust, mud etc.) should be present on the surface of tablet and pallets. Tablets shall be intact enough not to fall apart during handling.

### 2.3. Dissolution in liquid metal

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SUPPLIER NAME		SIGNATURE			
YETKİLİ İSİM/					
RESPONSIBLE					
TARİH/ <i>DATE</i>					



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The recovery rate of Fe element in the metal bath must be above 95% for the application temperature of 700-800 °C at the end of 30 minutes.

## 3.0. TEST SERTIFIKASI VE / VEYA KOŞULLARI/ TEST CERTIFICATE AND/OR CONDITIONS

The supplier shall provide a test certificate for each material delivered showing the content of the master alloy that comply the specified values above. The following information must be included in the certificate:

Supplier's Name

Assan Order Number

Chemical analysis

Product Name (and code, if available)

## 4.0. TESLİMAT ŞEKLİI DELIVERY CONDITIONS

### 4.1. Packaging

Shall be packed in maximum 1.5-ton packages that are not affected by the environmental conditions (such as rain, moisture, mud and dust) and the packaging shall allow ease of handling by forklift. Dimensions should not exceed the limits given in Table 1.

Height	Length	Width	
(mm)	(mm)	(mm)	
1200	1100		

Table 1. Upper limits for package dimensions

## 4.2. Labeling

The following information should be shown on the label prepared for each skid:

Supplier's Name

Material Name

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Net Weight Shipping date Production no

## 5.0. YÜKÜMLÜLÜKI OBLIGATION

The supplier is obligated to meet the requirements indicated in this specification for each lot of materials delivered. The materials that do not comply the requirements in this specification shall be returned. ASSAN may charge all the losses originating from the master alloy itself, that does not comply the specification, to the supplier, including all the processing cost so far incurred and any charges endorsed by the customer of ASSAN. In case of any disripancy related to the quality issue violating the specification, the investigation reports issued by local research institute, TUBİTAK or universities ITÜ, ODTÜ, YTÜ will be employed for resolution.

### 6.0. SORUMLULUK/ RESPONSIBILTIES

The Product and Process Development Department is responsible from checking of certificate provided by the supplier for compliance with the specification. The Cast shop is responsible for checking physical properties and the proper use of the material in prescribed practices.

### 7.0. DİĞER HUSUSLARI OTHER

Supplier is obliged to have master alloy be tested in an accredited laboratory once in a year and submit the results to ASSAN.

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