

JIS

JAPANESE INDUSTRIAL STANDARD

**Hot-rolled Steel Plates,
Sheets and Strip for
Automobile Structural Uses**

JIS G 3113—1990

Translated and Published

by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Hot-rolled Steel Plates, Sheets and
Strip for Automobile Structural Uses

G 3113-1990

1. Scope

This Japanese Industrial Standard specifies the hot-rolled steel plates, sheets and strips (hereafter referred to as the "steel sheets and coils") with press drawability to be used mainly for automobile frames, wheels, etc.

Remark: The units and numerical values given in { } in this Standard are based on the International System of Units (SI) and are appended for informative reference.

Further, the traditional units accompanied by numerical values in this Standard shall be converted to the SI units and numerical values on January 1, 1991.

2. Grades and Symbols

Steel sheets and coils shall be classified into 4 categories, and their symbols shall be as given in Table 1-1 or Table 1-2.

Table 1-1. Symbols of Grades
(Applicable till the end of 1990)

Grade	Applicable thickness
SAPH 32	1.6 mm or over up to and incl. 14 mm
SAPH 38	
SAPH 41	
SAPH 45	

Applicable Standards: See page 8.

Table 1-2. Symbols of Grades
(Applicable on and after January 1, 1991)

Grade		Applicable thickness
SI units	(For informative reference) Traditional units	
SAPH 310	SAPH 32	1.6 mm or over up to and incl. 14 mm
SAPH 370	SAPH 38	
SAPH 400	SAPH 41	
SAPH 440	SAPH 45	

3. Chemical Composition

Steel sheets and coils shall be tested in accordance with 7.1 and their cast analysis values shall conform to Table 2-1 or Table 2-2.

Table 2-1. Chemical Composition
(Applicable till the end of 1990) Unit: %

Grade	P	S
SAPH 32	0.040 max.	0.040 max.
SAPH 38		
SAPH 41		
SAPH 45		

Table 2-2. Chemical Composition
(Applicable on and after January 1, 1991)
Unit: %

Grade	P	S
SAPH 310	0.040 max.	0.040 max.
SAPH 370		
SAPH 400		
SAPH 440		