

SAFEGUARDS

SGS CONSUMER TESTING SERVICES

HARDLINES

NO. 095/09 JUNE 2009

ITALY DRAFT REGULATIONS ON FOOD CONTACT STAINLESS STEEL MATERIALS

Italy recently drafted regulations on stainless steel materials and articles intended to come into contact with food. The provisions list the types of stainless steel materials that may be in contact with foods. An effective date has not been set in the draft regulations.

The Ministry of Labor, Health and Social Policies of Italy recently adopted draft regulations to update the decree of 21 March 1973 and subsequent amendments concerning hygiene standards applicable to packaging, containers and utensils intended to come into contact with food substances or substances for personal use, manufactured from stainless steel¹. The issue of the regulations is necessary for the designation of stainless steels according to the nomenclature of the international standards in force.

Examples of stainless steels that may be used in contact with foods are summarized in Tables 1 and 2.

In Table 1, each type of stainless steel is indicated with a code that identifies its chemical composition according to Standard UNI EN 10088-1:2005 and/or the classification of the American Iron and Steel Institution (AISI Manual of December 1974) and/or the technical



specifications of the American Society for Testing and Materials (ASTM) and/or designations of the Unified Numbering System (UNS).

In Table 2, stainless steel identified through the chemical analysis of cast iron and steel, in the absence of codes issued under European or international regulations per Table 1.

¹ Draft regulations updating the decree of the 21 March 1973 concerning hygiene standards applicable to packaging, containers and utensils intended to come into contact with food substances or substances for personal use, manufactured from stainless steel, Notification number 2009/202/I, Technical Regulations Information System, TRIS, 7 April 2009, [More](#)

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Table 1

UNI EN 10088-1					
Numeric code	Alphanumeric Code	AISI/ASTM		UNS	NOTES
1.4462	X2CrNiMoN 22-5-3	—	—	S31803	(*)
1.4590	X2CrNbZr 17	—	—		(*)
1.4362	X2CrNiN 23-4	—	—	S32304	--
		—	—	S32101	(**)
1.4510	X3CrTi 17	—	—		--
1.4509	X2CrTiNb 18	—	—	S43940 S43932	--
1.4521	X2CrMoTi 18-2	ASTM	Type 444	S44400	--

(*) Provided that the articles manufactured with the two steels are intended exclusively:

- for repeated use over short periods at a hot or at room temperature
- for prolonged use at room temperature, limited to foods subject to migration tests with simulant D.

(**) For articles undergoing repeated use at temperatures not exceeding 70 °C.

Steel included under prEN 10088-4:2008 and designated as 1.4162 - X2CrMnNiN 21-5-1

Table 2

Type	C	Si	Mn	P	S	N	Cr	Cu	Mo	Nb	Ni	Other elements
a	0.05 max	1.0 max	2.0 max	0.045 max	0.030 max	0.08- 0.20	22.0- 25.0	—	2.5- 3.5	—	4.5- 6.5	—
b	0.08 max	1.0 max	3.8- 7.5	0.045 max	0.015 max	0.05- 0.25	17.0- 18.0	1.5- 3.5	—	—	3.5- 5.5	—

Throughout our global network of laboratories, we are able to provide a range of services, including testing for materials and articles intended to come into contact with food for worldwide markets. Please do not hesitate to contact us for further information.

SGS will follow up and inform interested parties the development on Italian and other international legislation as they occur.

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