TECHNICAL REPORT

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Welding - Grouping systems for materials - American materials (ISO/TR 20173:2009)

Soudage - Systèmes de groupement des matériaux - Matériaux américains (ISO/TR 20173:2009)

Schweißen - Werkstoffgruppeneinteilung - Amerikanische Werkstoffe (ISO/TR 20173:2009)

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Welding — Grouping systems for materials — American materials

1 Scope

This Technical Report provides an American grouping system for materials for welding purposes, classified in accordance with the greening system of ISO/TR 15608:2005^[1].

It may also apply for other purposes, such as heat treatment, forming, and non-destructive testing. Types of steels are listed in accordance with the grouping system of ISO/TR 15608:2005^[1], Table 1.

This Technical Report covers growing systems for the following standardized materials:

- steel;
- aluminium and its alloys;
- nickel and its alloys;
- copper and its alloys;
- titanium and its alloys;
- zirconium and its alloys;
- cast irons.

2 American grouping system for materials

See Tables 1 and 2.

Table 1 — American grouping system for ferrous/material

ASTM/AS	ASTM/ASME		UNS	ASME/AWS		ISO/TE	
Specification	No.	Type or grade	No.	P or M No.	Group No.	15608:2005 Nominal composit	Nominal composition
AS	15	5-490	-	1	_	1.1	С
AS	15	7-430		1		1.1	С
AS	15	7-460		1		1.1	С
AS	15	7-490	_	1		1.1	С
A/SA	36	_	K02600	1	1	11.1	C-Mn-Si
A/SA	36	_	K02600	1	1	11.1	C-Mn-Si
A/SA	53	Type E, Gr. A	K02504	1	1	11.1	С

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