



**NIPPON STEEL &
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CORPORATION GROUP**

NIPPON STEEL & SUMIKIN WELDING CO., LTD.

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NSSW-QC-2018-008

March 18, 2019

Announcement of ISO Classification Change

Dear Norsk Sveiseteknikk A/S

We appreciate your selection of our welding consumables & equipment, and continuous support to us.

Due to revision of ISO17632 and ISO18276 required by ISO organization, we will change a part of the ISO classification designation of our products.

In Table 4A (Symbol for chemical composition of all-weld metal) of ISO17632 : 2015 (In Table 3A of ISO18276 : 2017) , annotation d(annotation c of ISO18276 : 2017) is added, consumables for which the chemical composition is not listed in this table shall be symbolized similarly and prefixed by the letter Z.

In clause 4.6(symbol for shielding gas) of ISO17632 : 2015(in clause 5.6 of ISO18276 : 2017), although the symbols M,C were given, they were revised to give symbols conforming to ISO 14175 (C1 : 100%CO₂ ,M21 : 15~25%CO₂+Ar) .There is no major change in characteristic wise with this revision.

1. ISO classification designation of our products

Point of the change with respect to the old and new ISO classification
(the new ones being applicable from March 9, 2019 and thereafter)

Type of Steel	Shield Gas	Brand Name	EN ISO(current)	EN ISO17632 : 2015 EN ISO18276 : 2017
Non-alloy and fine grain steel	CO ₂	NSSW SF-1	17632-A-T 42 0 Z P C 1 H5	17632-A-T 42 0 ZMn P C1 1 H5
		NSSW SF-1E	17632-A-T 42 2 Z P C 1 H5	17632-A-T 42 2 ZMnNi P C1 1 H5
		NSSW SF-3M	17632-A-T 46 4 Z P C 2 H5	17632-A-T 46 4 ZMnNi P C1 2 H5
		NSSW SF-3E	17632-A-T 46 4 Z P C 2 H5	17632-A-T 46 4 ZMn P C1 2 H5
		NSSW SF-36E	17632-A-T 46 6 Z P C 2 H5	17632-A-T 46 6 ZMn1.5Ni P C1 2 H5
		NSSW SF-47E	17632-A T 46 6 Z P C 2 H5	17632-A T 46 6 ZMn1Ni P C1 2 H5
		NSSW SF-50E	17632-A-T 50 6 Z P C 2 H5	17632-A-T 50 6 ZMn2.5Ni P C1 2 H5
	Ar-CO ₂	NSSW SF-1A	17632-A-T 42 2 Z P M 1 H5	17632-A-T 42 2 ZMn P M21 1 H5
		NSSW SF-3A	17632-A-T 46 4 Z P M 1 H5	17632-A-T 46 4 ZMnNi P M21 1 H5
		NSSW SM-3A	17632-A-T 42 4 Z M M 1 H5	17632-A-T 42 4 ZMn M M21 1 H5
		NSSW SF-3AMSR	17632-A-T 42 4 Z P M 2 H5	17632-A-T 42 4 ZMnNi P M21 2 H5
		NSSW SF-36EA	17632-A-T 46 4 Z R M 2 H5	17632-A-T 46 4 ZMnNi R M21 2 H5
		NSSW SF-3AM	17632-A-T 46 4 Z P M 2 H5 17632-A-T 46 6 Z P M 2 H5	17632-A-T 46 4 ZMn1Ni P M21 2 H5 17632-A-T 46 6 ZMn1Ni P M21 2 H5
		NSSW SM-47A	17632-A-T 46 6 1Ni M M 1 H5	17632-A-T 46 6 1Ni M M21 1 H5
		NSSW SF-50A	17632-A-T 50 4 Z P M 2 H5	17632-A-T 50 4 ZMn1.5Ni P M21 2 H5
High strength steel	Ar-CO ₂	NSSW SF-80A	18276-A-T 69 4 Z P M 2 H5	18276-A-T 69 4 ZMn2.5NiMo P M21 2 H5
		NSSW SM-80A	18276-A-T 69 4 Z M M 2 H5	18276-A-T 69 4 ZMn2.5NiCrMo M M21 2 H5

2. Time of the change

Products manufactured on March 9, 2019 and thereafter

3. Notes

- (1) Please understand that after the change, the old and new ISO classification designations coexist for a while.
- (2) For a same order, a product with the old ISO classification designation and with the new ISO classification designation may coexist. For example, a product manufactured in March 8 or before with an old ISO classification designation may be shipped together with a product manufactured in March 9 or after with a new ISO classification designation.
- (3) For a same order, certificates of inspection in old and new classification may be issued. For example, the certificate corresponding to a product manufactured in March 8 or before is attached with an old ISO classification designation, and the certificate corresponding to a product manufactured in March 9 or after is attached with a new ISO classification designation, and both certificates are issued for the same order.

We appreciate your kind understanding of this change. If you have any questions or need clarification, please feel free to contact us.

Sincerely,



K. Ishikawa
General Manager
Quality Control Department
Quality Control Div.