

Supershield 71GS

SELF-SHIELD FLUX CORED ARC WELDING CONSUMABLE FOR MILD & 490MPa CLASS HIGH TENSILE STEEL

2020.12

HYUNDAI WELDING CO., LTD.

Specification	AWS A5.20	E71T-GS	
	(AWS A5.20M	E491T-GS)	
	JIS Z3313	T49 T14-1 N S	
	EN ISO 17632-A	T 42 Z Z V NO 1	
* Applications	Supershield 71GS is a and other general fab	used where light structures, short assembly welds, rication and galvanized steel fixtures, gate etc.	
Characteristics on Usage	Supershield 71GS is an all position self-shielded flux cored wire designed for single-pass welding of thin mild and medium tensile steels not exceeding 510MPa. Supershield 71GS used DC(-) polarity produces smooth arc stability, low spatters ,full covering slag for all position welding		
Note on Usage	Do not use shielding	gas.	

Supershield 71GS

Mechanical Properties & Chemical Composition of All Weld Metal

Test Assembly

Method by AWS Spec.



Note) In accordance with the rule of AWS A5.20

Welding Conditions

Wire Dia.	Polarity	Welding Position	Amp. (A)	Volt. (V)	Carrige Speed	Heat Input (kj/cm)	Interpass Temp.
1.2mm (0.045in)	DC(-)	1G	220	20	0.2~0.3 m/min (7.8~11.8in/min)	11~16	150±15℃ (302±59°F)

This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of HYUNDAI WELDING CO., LTD. affect the results obtained in applying this type of information. These variables include, but are not limited to, welding procedure, shielding gas, plate chemistry and temperature, weldment design, fabrication methods and service requirements.

Mechanical Properties & Chemical Composition of All Weld Metal

* Mechanical Properties of all weld metal

Test	As-Welded
Transverse Tensile Strength, MPa(Ibs/in²) (Specimen broken in the base metal)	586(85,000)
Longitudinal Guided Bend Test	Satisfactory

Chemical Analysis of all weld metal(wt%)

Consumable	с	Si	Mn	Р	S	AI
Supershield 71GS	0.26	0.50	0.91	0.016	0.014	2.05
AWS A5.20 E71T-GS	Not Specified					

This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of HYUNDAI WELDING CO., LTD. affect the results obtained in applying this type of information. These variables include, but are not limited to, welding procedure, shielding gas, plate chemistry and temperature, weldment design, fabrication methods and service requirements.

Proper Welding Condition

Proper Current Range

Consumable	Shielding Gas	Welding Position	Wire Dia.		
			1.2mm (0.045in)	1.6mm (1/16in)	
Supershield 71GS		F	160~220Amp (190A 18V)	200~280Amp (250A 20V)	
	NONE	HF	140~200Amp (180A 17V)	180~260Amp (240A 19V)	
	NONE	V-Up	130~180Amp (150A 16V)	170~230Amp (190A 20V)	
		он	130~180Amp (150A 16V)	170~230Amp (190A 20V)	

F No & A No

F No	A No
6	-

This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of HYUNDAI WELDING CO., LTD. affect the results obtained in applying this type of information. These variables include, but are not limited to, welding procedure, shielding gas, plate chemistry and temperature, weldment design, fabrication methods and service requirements.