

KISWEL

Pre-Qualification Profile

KISWEL at a glance
Product Introduction
Approval & Appreciation

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Part 1: KISWEL at a glance

1-1. Key Numbers of KISWEL 2017

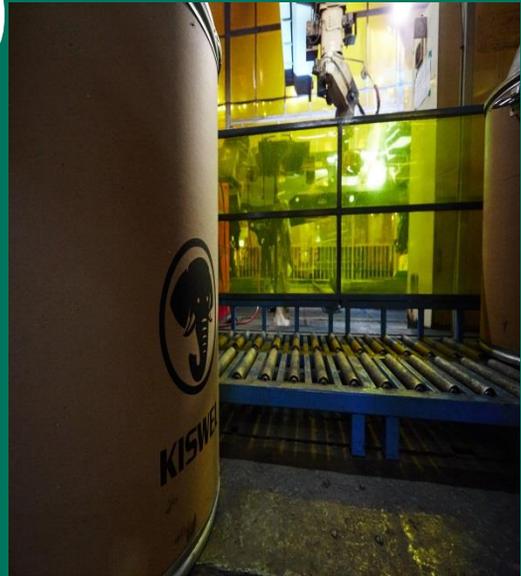
16.5 80 450

2017年販売実績

16.5K MT

80ヶ国

450顧客



17 7 1

17 販売拠点

7 生産拠点

1 技術研究所



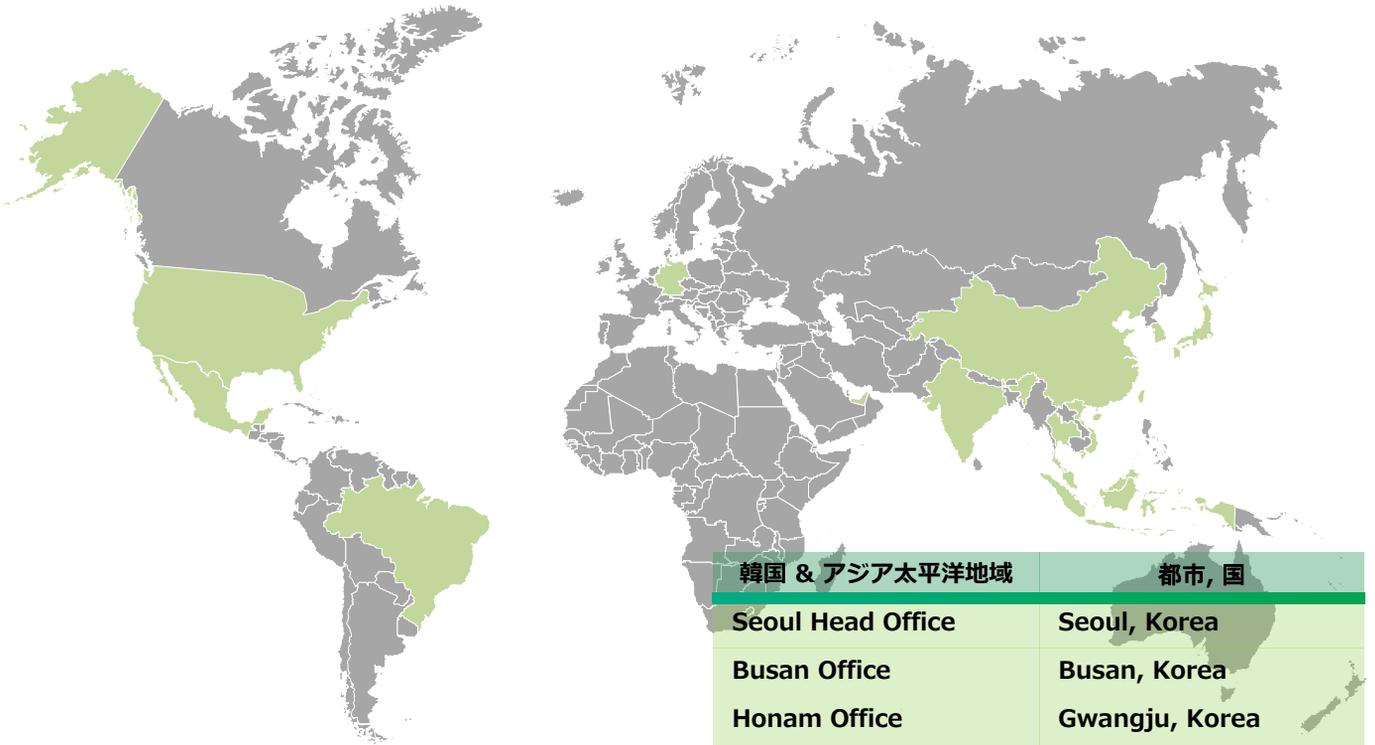
400

400種類の製品



Part 1: KISWEL at a glance

1-2. KISWEL グローバルネットワーク



 **17** Offices
 **7** Plants
 **1** R&D

欧州地域	都市, 国
Luxembourg Office	Luxembourg
Düsseldorf Office	Soon to be opened

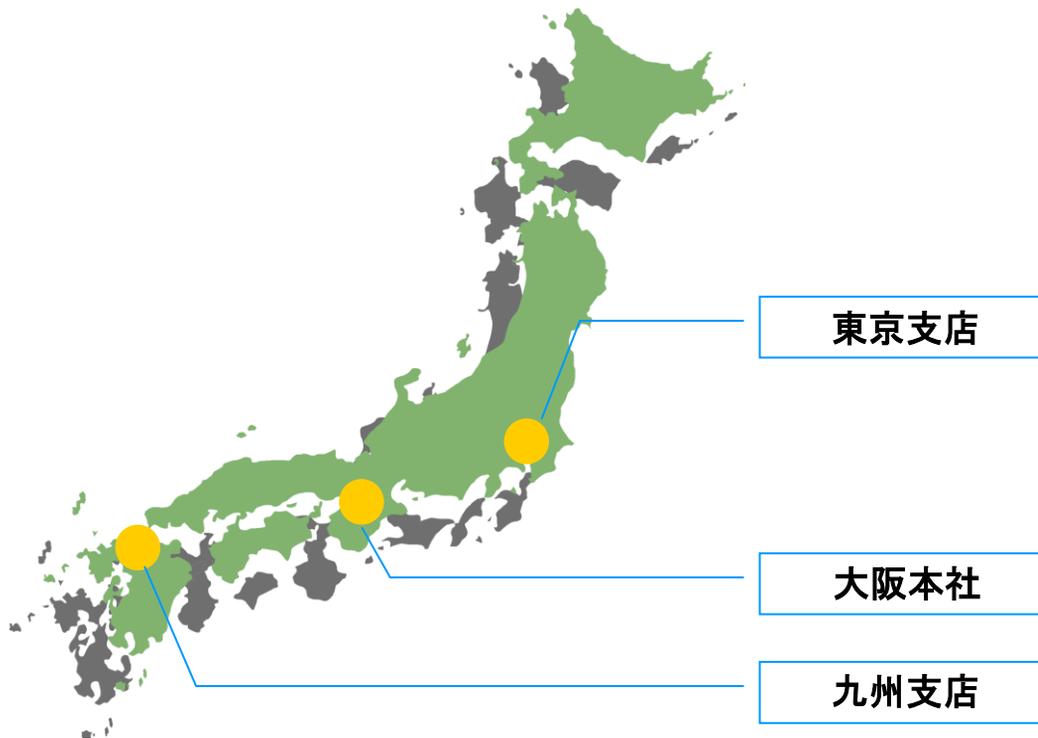
中東地域	都市, 国
Dubai Office	Dubai, UAE

北, 中, 南米地域	都市, 国
USA Plant	Kentucky, USA
KISWEL MEXICO S.A.	Monterrey, Mexico
Rio De Janeiro Office	Soon to be opened

韓国 & アジア太平洋地域	都市, 国
Seoul Head Office	Seoul, Korea
Busan Office	Busan, Korea
Honam Office	Gwangju, Korea
Pohang Office	Pohang, Korea
Geojae Office	Geojae, Korea
Busan Plant	Busan, Korea
Changwon Plant	Changwon, Korea
Pohang Plant	Pohang, Korea
R&D Center	Changwon, Korea
Poswelding	Pohang, Korea
KISWEL Japan	Osaka, Japan
Tokyo Office	Tokyo, Japan
Fukuoka Office	Fukuoka, Japan
China Office / Plant	Dalian, China
Malaysia Office / Plant	Johor Bahru, Malaysia
Shanghai Office	Shanghai, China
Bangkok Office	Bangkok, Thailand
Ho Chi Minh Office	Ho Chi Minh, Vietnam
Jakarta Office	Jakarta, Indonesia
New Delhi Office	Soon to be opened

Part 1: KISWEL at a glance

1-3. KISWEL JAPAN 営業拠点



大阪本社

〒556-0011 大阪府大阪市難波中3丁目8番24号キスウェルビル
TEL: (06) 6636-6615
FAX: (06) 6636-1275

東京支店

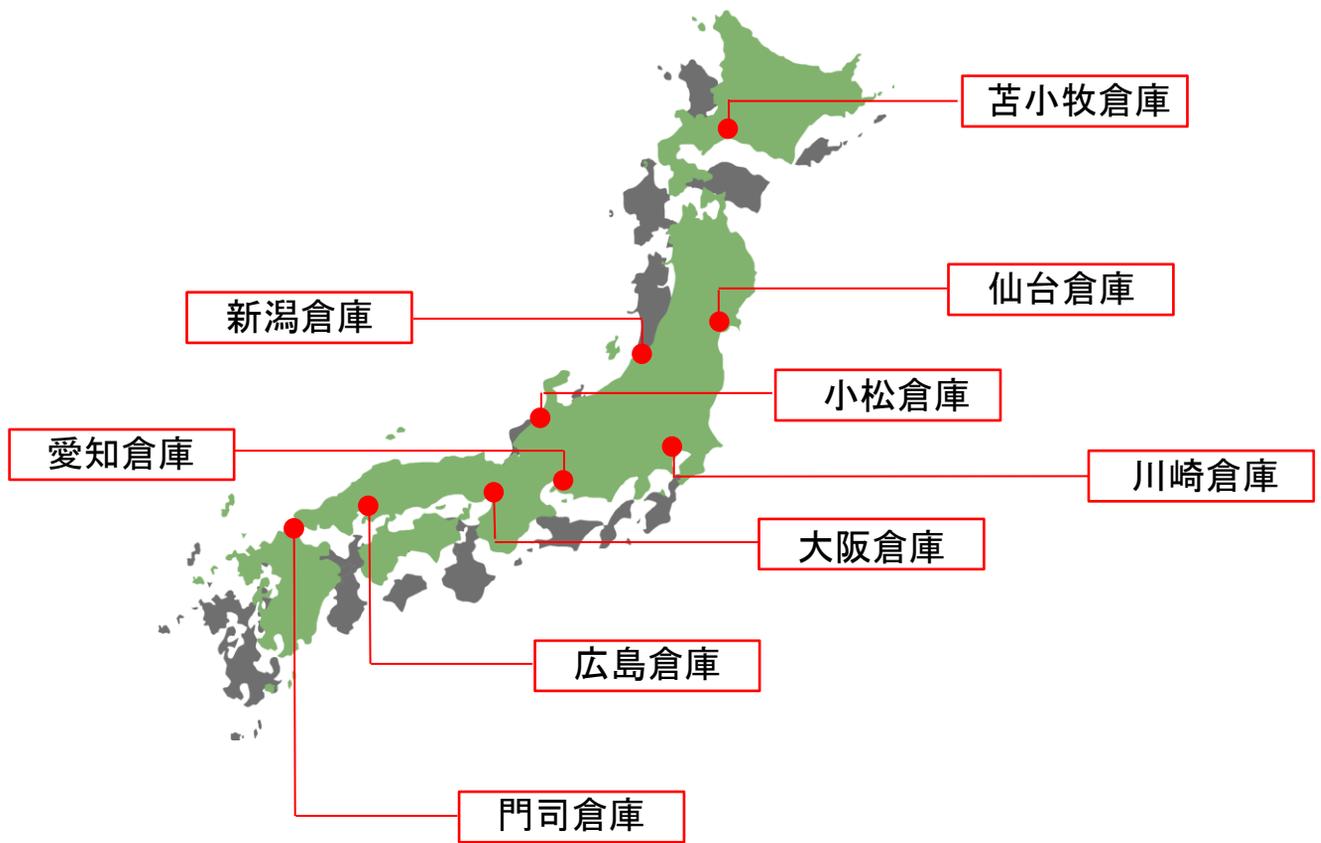
〒001-0002 東京都中央区日本橋大伝馬町4番5号凰(おおとり)ビル5階
TEL: (03) 3669-2490
FAX: (03) 3669-2924

九州支店

〒812-0013 福岡県福岡市博多区博多駅東3-10-15アトルビル6F
TEL: (092) 432-2820
FAX: (092) 432-2821

Part 1: KISWEL at a glance

1-4. KISWEL JAPAN 物流拠点



◆北海道

苫小牧倉庫: 北海道苫小牧市新明町3-1-1

◆東北

仙台倉庫: 宮城県仙台市宮城野区蒲生2-31-6

◆関東

川崎倉庫: 神奈川県川崎市川崎区東扇島29-5

◆信越

新潟倉庫: 新潟県北蒲原郡聖籠町東港3-170-6

◆東海

愛知倉庫: 愛知県海部郡飛島村東浜2-1-1

◆関西

大阪倉庫: 大阪府大阪市住之江区南港中6-3-44

◆北陸

小松倉庫: 石川県小松市宝町62

◆中国

広島倉庫: 広島県安芸郡坂町北新地1-1-23

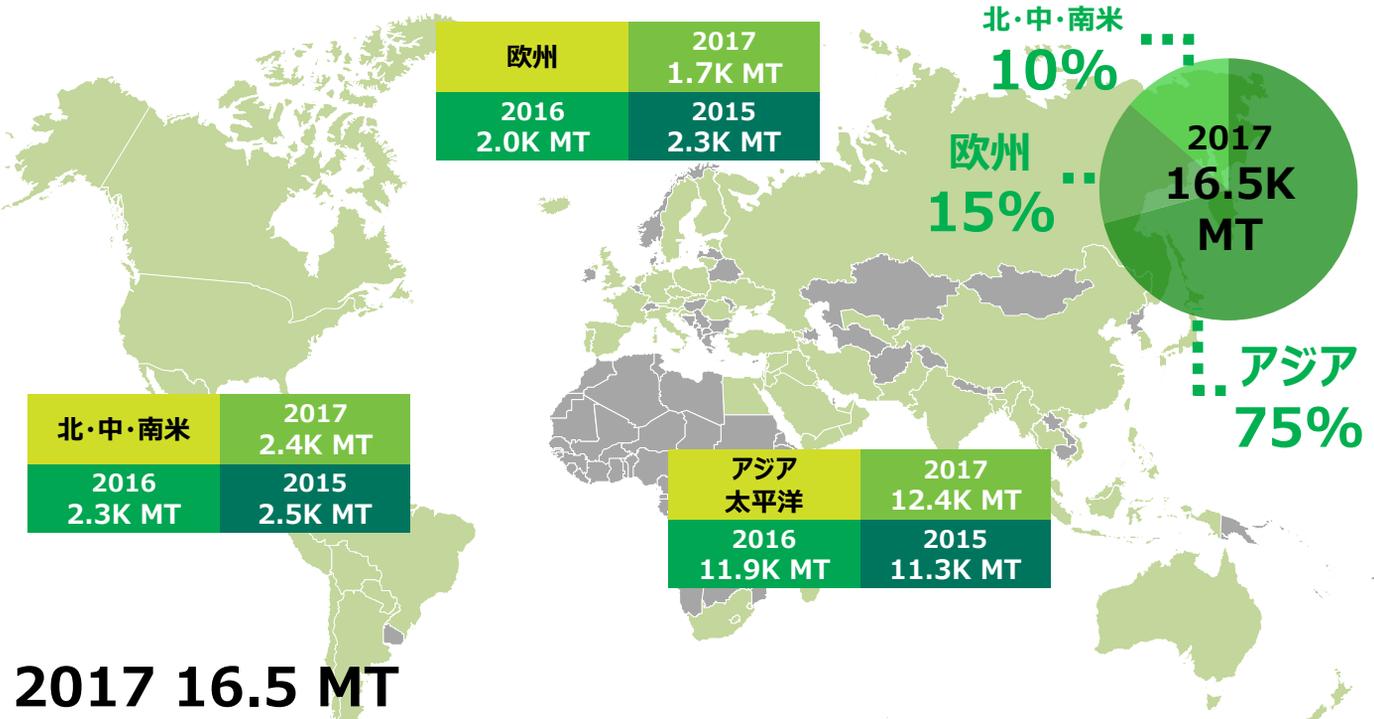
◆九州

門司倉庫: 福岡県北九州市門司区大里元町1-15

計: 9拠点

Part 1: KISWEL at a glance

1-5. 主要販売先概要①



2017 16.5 MT



Automotive	Construction Machinery	Oil & Gas	Shipbuilding	Pipe Mill	Power Plant	Wind Power
TOYOTA						
	HITACHI Inspire the Next					
GM						
CHRYSLER						
	VOLVO					
	HITACHI SUMITOMO					
HYUNDAI KIA MOTORS						

Part 1: KISWEL at a glance

1-5. 主要販売先概要(一部抜粋)②

No.	ユーザー	業種	鋼種			
1	(株)小松製作所	建機	SOLID	ZO-26		
				ZO-27		
KC-28						
2	日立建機(株)			KC-26		
				ZO-27		
3	住友建機(株)			KC-28		
				ZO-27		
4	キャタピラー・ジャパン(株)			ZO-26		
			ZO-27			
5	コベルコ建機(株)		ZO-26			
			FCW	KX-200		
6	カルソニックカンセイ(株) (日産)		自動車	MIG	M-308	
7	東京ラヂエーター製造(株) (日産)				M-309LSI	
8	(株)ケー・アイ・ケー (トヨタ)			SOLID	KC-28	
				KC-25M		
9	(株)SUBARU			MIG	M-308	
				SOLID	KC-28	
10	坂本工業(株) (スバル)			MIG	M-308	
11	三恵技研工業(株) (ホンダ)	M-309				
		M-309L				
12	(株)エフテック (ホンダ)	SOLID			KC-28	
13	(株)エクセディ (トヨタ)				KC-28	
14	(株)Y-TECH (マツダ)				KC-28	
15	シロキ工業(株) (トヨタ)			KC-28		
16	富士シート(株) (トヨタ)			KC-28		
17	トピー工業(株) (トヨタ)			KC-28		
18	(株)三五(トヨタ)			MIG	M-308	
19	ジャパンマリンユナイテッド(株)	造船		FCW	K-71T	
				ELECTRODE	K-7028LF	
			SOLID	ZO-26		
20	三菱重工(株) 長崎造船所		FCW	K-71T		
				K-81TK2		
21	三井E&S造船(株)		SOLID	K-71T		
				KC-28		
22	日本製鉄(株)		鋼管	SAW	ZO-26	
23					KD-50CW	
					KD-50	
24	(株)クボタ			ZO-26		
25	三菱日立パワーシステムズ(株)			プラント	特殊材	KW-M622, 625
26	(株)IHI					KW-M622

Part 1: KISWEL at a glance

1-6. 認証一覽

ISO 9001



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

KISWEL Ltd.
58-2, Seongju-dong, Changwon-si
Gyeongnam, 641-120, Korea

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

ISO 9001:2008

The Quality Management System is applicable to:

Manufacture of solid welding wires & rods, flux cored wires, submerged arc welding wires & fluxes and stainless steel welding wires & rods.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

This certificate forms part of the approval identified by certificate number SED 1945224A

Approval Certificate No: SED 1945224A
Original Approval: 6 January 2005
Current Certificate: 12 December 2013
Certificate Expiry: 11 December 2016

Senghwan Joo
Signed by Lloyd's Register Quality Assurance Limited



This document is subject to the provisions on the name of the product and the location of the factory as stated in the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

ISO/TS 16949



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

KISWEL Ltd.
58-2, Seongju-dong, Changwon-si
Gyeongnam, 641-120, Korea

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standard:

ISO/TS 16949:2009
(excluding product design)

The Quality Management System is applicable to:

Manufacture of solid welding wires & rods, flux cored wires, submerged arc welding wires & fluxes and stainless steel welding wires & rods.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

This certificate forms part of the approval identified by certificate number SED 0945224

Approval Certificate No: SED 0945224A
Original ISO/TS 16949 Approval: 6 January 2005
Current Certificate: 12 December 2013
Certificate Expiry: 11 December 2016

Senghwan Joo
Signed by Lloyd's Register Quality Assurance Limited



This document is subject to the provisions on the name of the product and the location of the factory as stated in the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

ASME QSC

QUALITY SYSTEM CERTIFICATE

This certifies the named company as having had their quality system program verified for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The certification granted by this certificate is subject to the provisions of the agreement set forth in the application. This certificate does not include authorization to use the ASME certification mark. Any material produced under this certificate will have been manufactured strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:
Kiswel Ltd.
704, Gogdan-ro, Seogang-gu
Changwon-si
Gyeongnam-do 641-120
Republic of Korea

SCOPE:
Material Organization manufacturing ferrous & nonferrous welding material including utilization of unqualified source material and approval and control of suppliers at the above location and with additional Code activities as described in the Quality Program Manual at Busan Factory, 70, Saebok-ro 63beon-gil, Ssang-gu, Busan, 617-643, Republic of Korea

AUTHORIZED: **May 10, 2013**
EXPIRES: **May 21, 2016**
CERTIFICATE NUMBER: **QSC-915**

Byeong Ahn
Vice President, Conformity Assessment

Jahn Ajid
Director, Conformity Assessment

The American Society of Mechanical Engineers



TÜV

Verfügbares Kennfeld für Schweißarbeiten

TÜV SÜD
Zertifizierungsstelle
KISWEL Ltd.
58-2 Seongju-dong (Changwon)

QUALITY SYSTEM CERTIFICATE

This certifies the named company as having had their quality system program verified for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The certification granted by this certificate is subject to the provisions of the agreement set forth in the application. This certificate does not include authorization to use the ASME certification mark. Any material produced under this certificate will have been manufactured strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:
Kiswel Ltd.
704, Gogdan-ro, Seogang-gu
Changwon-si
Gyeongnam-do 641-120
Republic of Korea

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Material Organization manufacturing ferrous & nonferrous welding material including utilization of unqualified source material and approval and control of suppliers at the above location and with additional Code activities as described in the Quality Program Manual at Busan Factory, 70, Saebok-ro 63beon-gil, Ssang-gu, Busan, 617-643, Republic of Korea

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58-2 Seongju-dong (Changwon)

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Byeong Ahn
Vice President, Conformity Assessment

Jahn Ajid
Director, Conformity Assessment

CE

ISO 14001

Japanese Industrial Standards

Korean Industrial Standards

TECHNICKÝ A ZKŮŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, a.s.
Technical and Test Institute for Construction Prague

EC CERTIFICATE OF FACTORY PRODUCTION CONTROL
č. 1020 - CPD - 07003896

In conformity with the Decision No. 98/2001 of the Council of European Communities of 21 December 1998 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), approved by the Council of European Communities of 22 July 1993, it has been stated that the construction product:

Welding consumables - filler metals and fluxes for fusion welding of metallic materials

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standard:

ISO 14001:2004

The Environmental Management System is applicable to:

Manufacture of solid welding wire & rods, flux cored wires, submerged arc welding wires & fluxes and stainless steel welding wires & rods.

Approval Certificate No: SED 0992005
Original Approval: 22 September 1999
Current Certificate: 1 October 2014
Certificate Expiry: 30 September 2017

Senghwan Joo
Signed by Lloyd's Register Quality Assurance Limited

EN 13479:2004

This certificate has been issued on 8 March 2010 and remains valid as long as the conditions laid down in the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

Lloyd's Register LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

KISWEL LTD.
704, Gogdan-ro, Seogang-gu, Changwon-si, Gyeongnam & 70, Saebok-ro (Obang-gil), Ssang-gu, Busan, Korea

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standard:

ISO 14001:2004

The Environmental Management System is applicable to:

Manufacture of solid welding wire & rods, flux cored wires, submerged arc welding wires & fluxes and stainless steel welding wires & rods.

Approval Certificate No: SED 0992005
Original Approval: 22 September 1999
Current Certificate: 1 October 2014
Certificate Expiry: 30 September 2017

Senghwan Joo
Signed by Lloyd's Register Quality Assurance Limited

JIS

日本工業規格表示認証書

高麗産棒線株式会社 認

工業標準化法第23条第1項の規定により日本工業規格の表示について下記のことに認証する。

ISO 9001 2008 10 2013
ISO 14001 2004 10 2014
ISO 16949 2009 10 2017

韓国化学融合試験研究院 院長 崔炳業 認

SKG

제품인증서

인증번호: 483 호
제조업체: 고麗産棒線(주)
대표자명: 홍영철 대표
공공소재지: 부산광역시 사당구 제1동 202번지 70C(창동)
연락처:
- 조영명 : 영문명: 영우 홍영철
- 홍영철 : KS D 7004
- 홍영철 : 영우
E: 8301.4311.4316.09@skg.com
E: 83276.09@skg.com

산업표준화법 제7조 제1항에 따른 인증심사를 실시한 결과 한국산업표준(KS)과 인증심사기준에 적합하므로 산업표준화법 제15조에 따라 위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2015년 3월 20일

한국표준협회

1. 최종인증: 1971-02-15
2. 최종연장: 2015-03-20 (8년 연장)

Part 2: 製品紹介

2-1. ZO-26 (JIS Z3312 YGW11) 490N/mm²級高張力鋼用

- 1) 用途
自動車・鉄骨・車輻・橋梁など各種構造物の突合せ及びすみ肉溶接の全姿勢溶接
- 2) 特性
高電流域でも優秀な耐割れ性と低温靱性を持ち、耐欠陥性が優秀で、スパッタ発生が少なく、溶接部の溶け込みが深いので、高能率な溶接作業が可能です。

2-2. KC-28 (JIS Z3312 YGW12) 490N/mm²級高張力鋼用

- 1) 用途
自動車・鉄骨・車輻・橋梁など各種構造物の突合せ及びすみ肉溶接の全姿勢溶接
- 2) 特性
炭酸ガスまたはAr+CO₂混合ガス兼用で使用でき、低電流だけでなく高電流領域でもアークが安定してスパッタ発生が少なく、全姿勢溶接が可能です、使用用途が広範囲です。



Part 2: 製品紹介

2-3. ワイヤの化学成分

区分		C	Si	Mn	P	S	Ti
ZO-26	AWS A5.18 ER70S-G	-					
	EN ISO 14343 G11	0.02~0.15	0.55~1.10	1.40~1.90	<0.030	<0.030	0.02~0.30
	JIS Z3312 YGW11	<0.15	0.55~1.10	1.40~1.90	<0.030	<0.030	<0.30
	一例	0.05	0.79	1.45	0.016	0.004	0.17
KC-28	AWS ER70S-6	0.06~0.15	0.80~1.15	1.40~1.85	<0.025	<0.025	-
	JIS Z3312 YGW12	0.02~0.15	0.55~1.10	1.40~1.90	<0.030	<0.030	-
	一例	0.07	0.86	1.53	0.012	0.007	-

2-4. 溶着金属の機械的性質

区分	引張強度 (MPa)	降伏点 (MPa)	伸び (%)	衝撃値(J)		シールドガス
				- 20°C	- 30°C	
AWS 5.18	Min.480	Min.400	Min.22	-	≥27J	-
EN ISO 14341	530~680	Min.460	Min. 20	-	≥47J	-
ZO-26	570	490	30	110	-	100%CO2
	590	520	31	120	-	Ar+20%CO2
KC-28	550	450	30	-	70	100%CO2
	580	480	28	-	80	Ar+20%CO2