Newsletter
July, 2017

ICR

Address :3611, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do , South Korea (10048)

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Hot issue

- Approval for TEST LABORATORY By Korean Resister OF SHIPPING
- Certification Auditor Qualification Transition
- System Certification Q&A
- 89/686/EEC Personal protective equipment [PPE]
- Radio Equipment Directive 2014/53/EU

All companies are always advancing towards for better development and brighter future.

However, in order to go further in the fast-changing times, corporate efforts are absolutely needed. In response to that, ICR constantly studies with pride that customer satisfaction is the best objective. In addition, ICR has been reminded that the best competitiveness is "Increasing mutual trust". ICR is the nation's first one-stop service certification body as your specialized partner can locally and internationally provide testing, verification, inspection and certification services.
Be with ICR's trusted change and innovation, ICR will promise your smart and rich future.

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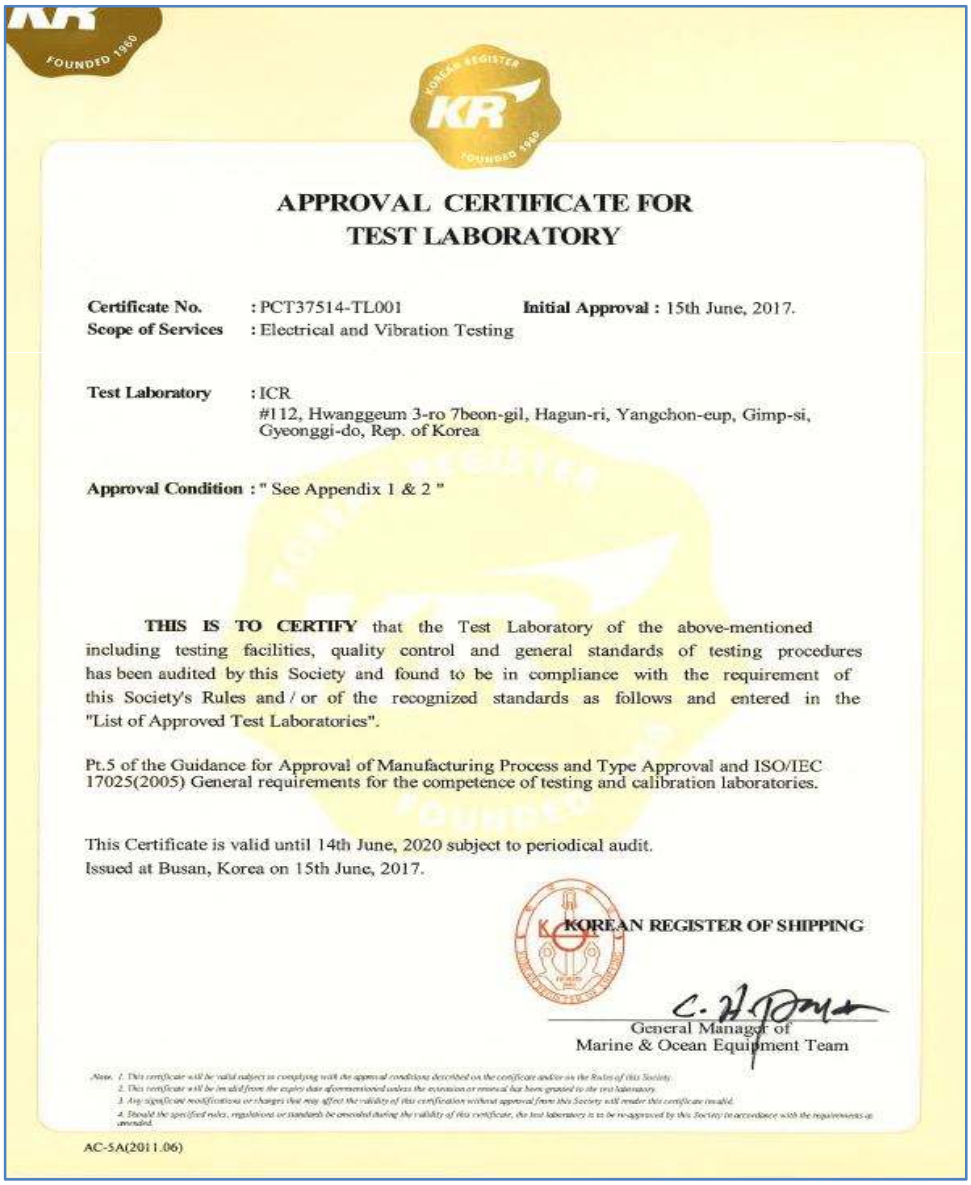
Approval for TEST LABORATORY
By Korean Resister OF SHIPPING

We have been recognized as an **Approved TEST LABORATORY** for **EMC and reliability test by KOREAN RESISTER OF SHIPPING** on June 15, 2017.

We will provide test service related to the approval of Korean Register of Shipping.



APPROVAL CERTIFICATE FOR
TEST LABORATORY

Certificate No. : PCT37514-TL001 **Initial Approval** : 15th June, 2017.
Scope of Services : Electrical and Vibration Testing

Test Laboratory : ICR
#112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimp-si, Gyeonggi-do, Rep. of Korea

Approval Condition : " See Appendix 1 & 2 "

THIS IS TO CERTIFY that the Test Laboratory of the above-mentioned including testing facilities, quality control and general standards of testing procedures has been audited by this Society and found to be in compliance with the requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Test Laboratories".

Pt.5 of the Guidance for Approval of Manufacturing Process and Type Approval and ISO/IEC 17025(2005) General requirements for the competence of testing and calibration laboratories.

This Certificate is valid until 14th June, 2020 subject to periodical audit.
Issued at Busan, Korea on 15th June, 2017.

KOREAN REGISTER OF SHIPPING

General Manager of
Marine & Ocean Equipment Team

AC-5A(2011.06)

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Certification Auditor Qualification Transition

Certification Auditor Qualification Transition

- Auditors, who maintain the auditor qualification for previous standards(ISO 9001:2008, KS Q ISO 9001:2009) through the KAR, shall transit the qualification to the latest standards (ISO 9001:2015, KS Q ISO 9001:2015) by 14th September 2018.

- The auditors shall complete the transition course more than 12 hours, which is provided by KAR, and please refer to KAR web page(www.kar.re.kr).

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System Certification Q&A [1]

System Certification Q&A

- **When will it be charged for reissuing a certificate?**
  - In the cases of, loss of certificate, extended scope of certification, change of business site, and the change of business name, the client will be charged.

- **Client A is certified but merged with company B, Can A's certification be transferred to B?**
  - The certification can be maintained through re-audit(regular cycle audit or special audit), but cannot be transferred without any audit activities.

System Certification Q&A [2]

System Certification Q&A

▪ **If installation is included in the certification scope, shall a temporary site visit audit be in every audit cycle?**

- In principle, a temporary site audit shall be conducted during the initial audit. In the subsequent audit, at least once or more temporary site audit shall be conducted during the three-year certification cycle.

▪ **In the case of certification body transfer audit, what of there was nonconformity in the recent audit?**

- Based on the certification body transfer procedure (QP-13), previous audit report from other certification body shall be reviewed.
If there was nonconformity the completion of nonconformity shall be reviewed with corrective action data.

89/686/EEC Personal protective equipment [PPE] [1]

The Directive specifies two classes of gloves meeting two levels of risk:
'minimal' and **'mortal' or 'irreversible'** risk.
A risk which falls between these two levels may be described as **'intermediate'.**

To comply with the 89/686/EEC Directive, you must establish the level of risk and select gloves of the appropriate class.

A system of marking has been developed to help you in that selection. Personal Protective Equipment (PPE) falls into the following three categories:

Category Ⅰ : for minimal risk only
Category Ⅱ : for intermediate risk
Category Ⅲ : for irreversible or mortal risk

CE

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89/686/EEC Personal protective equipment [PPE] [2]

EN 420 : General requirements on protective

This standard defines the general requirements for ergonomy, product design, construction, comfort,efficiency and marking.

- The gloves themselves should not impose a risk or cause injury.
- The pH of the gloves should be as close as possible to neutral.
- The pH value of leather gloves must be between 3.5 and 9.5 and the chrome
- content must be less than 3 mg/kg.
- The manufacturer must specify whether the glove contains substances that can cause allergies.
- Sized by reference to an agreed common European hand size.
- See the table below.

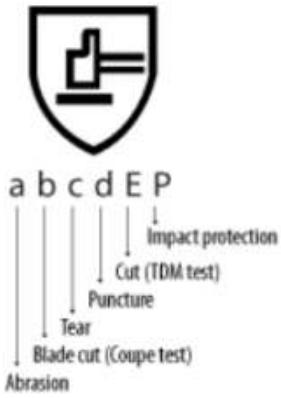
glove's size	6	7	8	9	10	11
Minimal Length (mm)	220	230	240	250	260	270
hand circumference (mm)	152	178	203	229	254	279
hand length (mm)	160	171	182	192	204	215

This pictogram indicates that the user has to consult the instructions for use.

89/686/EEC Personal protective equipment [PPE] [3]

EN 388 : Mechanical protection

EN388 : Main Changes (early 2016)



1)Most significant change will be in regard to the acceptance of the ISO 13997 (TDM) cut test method

– The 6 lower cut levels will be aligned to the ANSI/ISEA 105 method

– The results will still be reported in NEWTONS, not grams

– Levels achieved through the use of the TDM method will be lettered

A through F to avoid confusion with the Coupe test method results

2) The Coupe test will also be amended to take into account the dulling of the blade

3) There will be a change of the abrasive paper used

4) A new impact protection threshold will be added

▪ **Table 1 – Levels of performance**

Performance Level	0	1	2	3	4	5
a Abrasion resistance (cycles)	< 100	100	500	2000	8000	-
b Blade cut resistance (Coup test : index) *1	< 1.2	1.2	2.5	5.0	10.0	20.0
c Tear resistance (Newton)	< 10	10	25	50	75	-
d Puncture resistance (Newton)	< 20	20	60	100	150	-
x Test is non-applicable or unsuccessfully completed	-	-	-	-	-	-

89/686/EEC Personal protective equipment [PPE] [4]

EN 388 : Mechanical protection

- **Table 2 – Levels of performance for materials tested with EN ISO 13997**

Performance Level	A	B	C	D	E	F
TDM : cut resistance (Newton) *2	2	5	10	15	22	30

EN 374 : Chemicals and Micro-Organisms protection

This standard specifies the capability of gloves to protect the user against chemicals and/or micro-organisms.

Performance levels	1	2	3
acceptable quality level (AQL)	< 4.0	< 1.5	< 0.65

- **EN-374-2**

The 'Micro-organism' pictogram is to be used when the glove conforms to at least a performance level 2 for the Penetration test.

The penetration is measured by inflated a glove wit h air and submerging it into water.

89/686/EEC Personal protective equipment [PPE] [5]

- **EN-374-2**

If air leaks out within 30 seconds the glove is faulty. The result is shown as the greatest number of faulty gloves per hundred, which is expressed as the acce ptable quality level (AQL).

Performance level	0	1	2	3	4	5	6
Minutes	< 10	>10	>30	>60	>120	>240	>480

- **EN 374-3**

The 'Chemical resistant' glove pictogram must be ac companied by a 3-digit code.
This code refers to the code letters of 3 chemicals (from a list of 12 standard defined chemicals), for which a breakthrough time of at least 30 minutes has been obtained.

A : Methanol B : Acetone C : Acetonitrile
D : Dichloromethane E : Carbon disulphide
F : Toluene G : Diethylamine
H : Tetrahydrofurane I : Ethyl acetate
J : n-heptane K : Sodium hydroxide 40%
L : Sulphuric acid 96%

89/686/EEC Personal protective equipment [PPE] [6]

EN 407 : Heat and flame protection

This standard specifies thermal performance for protective gloves against heat and/or fire.

The nature and degree of protection is shown by a pictogram followed by a series of six performance levels, relating to specific protective qualities.
The 'heat and flame' pictogram is accompanied by a 6-digit number:

Performance level		1	2	3	4
a. Resistance to flammability	after flare time	≤ 20s	≤ 10s	≤ 3s	≤ 2s
	after glow time	-	≤ 120 s	≤ 25s	≤ 5s
b. Contact heat resistance	contact temperature	100℃	250℃	350℃	450℃
	threshold time	≥ 15s	≥ 15s	≥ 15s	≥ 15s
c. Convective heat resistance (heat transfer delay)		≥ 4s	≥ 7s	≥ 10s	≥ 18s
d. Radiant heat resistance (heat transfer delay)		≥ 7s	≥ 20s	≥ 50s	≥ 95s
e. Resistance to small drops of molten metal (# drops)		≥ 10	≥ 15	≥ 25	≥ 35
f. Resistance to large quantity of molten metal (mass)		30g	60 g	120 g	200 g

89/686/EEC Personal protective equipment [PPE] [7]

EN 511 : Cold protection

This standard defines the requirements and test methods for cold protection gloves from cold transmitted by convection or conduction down to –50 °C.

Protection against cold is expressed by a pictogram follo wed by a series of 3 performance levels, relating to specific protective qualities.

Performance level	0	1	2	3	4
a) Resistance to convection cold	ITR<0.10	0.10<ITR <0.15	0.15<ITR <0.22	0.22>ITR <0.30	0.30<ITR
b) Resistance to contact cold	R<0.025	0.025<R <0.050	0.050<R <0.100	0.100<R <0.150	0.150<R
c) Water permeability	Fail	Pass	-	-	-

Radio Equipment Directive 2014/53/EU [1]

The existing R&TTE Directive will be abolished as of June 13, 2017 and the **Radio Equipment Directive (RED)** have implemented. RED does not apply to all standards at the same time, and each standard will change over time.
(Before test, It must check the Directive through Notified Body. Because each Notified Body have apply the different Directive.)

Changes

- RED range includes wireless communications, wireless detection (RFID, radar, motion detection, etc.) equipment.
- RF equipment not used for communication or measurement is included in the scope of EMC directive.
- Tele-communication terminal equipment (TTE) is not applicable and only for wireless products.

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Radio Equipment Directive 2014/53/EU [2]

Changes

- No minimum frequency range (9 kHz for R & TTE) and 3000 GHz upper limit.
- Previously received certification can be sold until forced enforcement of RED, but after the enforcement, it can be sold only after being re-certified as RED.

New Standards

- EN 303 340 (Digital Terrestrial TV Broadcast Receivers)
- EN 303 345 (Broadcast Sound Receivers)
- EN 303 372-2 (Satellite Earth Stations and Systems(SES)

Change Standards

- EN 300 328 V2.1.1 (Wideband transmission systems) :
  Applicable from 13 August, 2017.
  Forced from 13 August, 2018.

- EN 301 489-1V2.2.1 (ElectroMagnetic Compatibility (EMC) standard for radio equipment and services)
  Applicable from 31 October, 2017.
  Forced from 31 October, 2018.

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