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**Qi Specification version 2.0 –
Part 7: Foreign Object Detection**

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QI SPECIFICATION VERSION 2.0 –
Part 7: Foreign Object Detection**FOREWORD**

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It is based on *Qi Specification version 2.0, Foreign Object Detection* and was submitted as a Fast-Track document.

The text of this International Standard is based on the following documents:

Draft	Report on voting
100/4257/FDIS	100/4282/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

The structure and editorial rules used in this publication reflect the practice of the organization which submitted it.

This document was developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.



Qi Specification

Foreign Object Detection

Version 2.0

April 2023

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RELEASE HISTORY

Specification Version	Release Date	Description
v2.0 Final Draft	April 2023	Initial release of the 2.0 Qi Specification.

Table of Contents

1	General	2
1.1	Structure of the Qi Specification	2
1.2	Scope	3
1.3	Compliance	3
1.4	References	3
1.5	Conventions	4
1.6	Power Profiles	6
2	Introduction	7
3	Avoidance of Foreign Object heating	8
3.1	Representative Foreign Objects	9
4	Pre-power transfer FOD methods	10
4.1	Empty surface test	11
4.2	Resonance change	12
5	In-power transfer FOD methods	17
5.1	Basic power loss accounting	17
5.2	Calibrated power loss accounting	23
	Annex A: Determining the reference FOD values (normative)	35
	Annex B: Open-air Q test (informative)	37
B.1	General flow for the open-air Q test	38
B.2	Measuring the quality factor	39
B.3	Impact of objects on the Q deflection	41
B.4	Compensated Q-deflection	42
B.5	Choosing a threshold	44
B.6	Temperature compensation	45
B.7	Potential implementation issues	46

1 General

The Wireless Power Consortium (WPC) is a worldwide organization that aims to develop and promote global standards for wireless power transfer in various application areas. A first application area comprises flat-surface devices such as mobile phones and chargers in the Baseline Power Profile (up to 5 W) and Extended Power Profile (above 5 W).

1.1 Structure of the Qi Specification

General documents

- Introduction
- Glossary, Acronyms, and Symbols

System description documents

- Mechanical, Thermal, and User Interface
- Power Delivery
- Communications Physical Layer
- Communications Protocol
- Foreign Object Detection
- NFC Tag Protection
- Authentication Protocol

1.2 Scope

The *Qi Specification, Foreign Object Detection* (this document) defines methods for ensuring that the power transfer proceeds without heating metal objects in the magnetic field of a Power Transmitter. Although the Power Transmitter may optionally use any of these methods, some of them require assistance by the Power Receiver.

1.3 Compliance

All provisions in the *Qi Specification* are mandatory, unless specifically indicated as recommended, optional, note, example, or informative. Verbal expression of provisions in this Specification follow the rules provided in ISO/IEC Directives, Part 2.

Table 1: Verbal forms for expressions of provisions

Provision	Verbal form
requirement	“shall” or “shall not”
recommendation	“should” or “should not”
permission	“may” or “may not”
capability	“can” or “cannot”

1.4 References

For undated references, the most recently published document applies. The most recent WPC publications can be downloaded from <http://www.wirelesspowerconsortium.com>.