



Subject: Restrictions of Hazardous Substances 2015/863 (RoHS III Compliance)

Date: 2/16/2021

To: Whom I May Concern:

Spira Manufacturing Corporation is committed to protecting the environment and being an environmentally responsible company. Spira Manufacturing Corporation hereby confirms that EMI Gaskets and seals within Spira RoHS & REACH Compliant Products Table are optionally in compliance with the RoHS directive EU 2015/863. Please access Spira RoHS & REACH Compliant Products Table for all options on the last page.

The materials and substances listed in the RoHS directive, which include cadmium (Cd), lead (Pb), Mercury (Hg), hexavalent chromium (Cr6+), polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), Bis phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) are not intentionally added or used in the manufacturing of our RoHS compliant gaskets and seals. Spira Manufacturing Corporation does not use any of these substances listed in the RoHS directive in the manufacturing of our RoHS compliant gaskets.

Please note that possible traces of the aforementioned prohibited materials may include naturally occurring mined copper and may be included in our beryllium copper products. However, if these traces exist, they are well below the allowable percentages listed in the RoHS directive.

As a result of this directive, Spira Manufacturing Corporation has developed a whole new product line of RoHS compliant EMI gaskets and seals.

Please call or e-mail [sales@spira-emi.com](mailto:sales@spira-emi.com) for details.

Sincerely,

A handwritten signature in black ink that reads "William Wantz". The signature is written in a cursive, flowing style.

William Wantz  
General Manager  
Spira Manufacturing Corporation  
(818) 764-8222  
(818) 764-9880 (FAX)

Subject: Restrictions of Hazardous Substances 1907/2006/C (REACH Compliance)



Date: 2/16/2021

To: Whom I May Concern:

Spira Manufacturing Corporation is committed to protecting the environment and being an environmentally responsible company. Spira Manufacturing Corporation hereby confirms that EMI Gaskets and seals within REACH Compliant Products Table are fully in compliance with the REACH Regulation 1907/2006/EC as of February 16<sup>th</sup>, 2021.

The materials and substances listed in the REACH Regulation, which include cadmium (Cd) and lead (Pb) are not intentionally added or used in the manufacturing of our REACH compliant gaskets and seals. Spira Manufacturing Corporation does not use any of these substances listed in the regulation in the manufacturing of our REACH compliant gaskets.

Please note, Lead as contained in Spira products are exempt from REACH restriction based on the "Conditions of Restrictions" in Annex XVII. Per the restriction above, the two categories for restriction are:

1. *Shall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead (expressed as metal) in such a part is equal to or greater than 0,05 % by weight.*
2. *Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead (expressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in the mouth by children.*

AS Supplied to our customers, Spira gaskets are neither "jewelry articles" nor "provided to the general public." Please see the European Chemicals Agency for more details: [ECHA Annex XVII](#)

Please note that possible traces of the prohibited materials may include naturally occurring mined copper and may be included in our beryllium copper products. However, if these traces exist, they are well below the allowable percentages listed in the REACH regulation.

As a result of this regulation, Spira Manufacturing Corporation has listed all available options of REACH compliant EMI Gaskets and seals in Spira RoHS & REACH Compliant Products Table. Please access Spira RoHS & REACH Compliant Products Table for all options on the last page.

Please call or e-mail [sales@spira-emi.com](mailto:sales@spira-emi.com) for details.

Sincerely,

*William Wantz*

William Wantz

General Manager

Spira Manufacturing Corporation

(818) 764-8222

(818) 764-9880 (FAX)

# RoHS (2011/65/EU) & WEEE (201/19/EU) Compliant Products Table:

1 = Compliant, 2 = Compliant Options Available, 3 = Not Compliant, -- = Not Applicable, ✓ = Available Option

Standard Material

Rev: 5/11/2021

Type	Product	RoHS Rating	Material		Cord						Plating					Frame				Inserts		
			Beryllium Copper	Stainless Steel	No Cord	PVC	Solid Fluorosilicone	Space Qualified Silicone	Solid Silicone	Thermal Plastic Rubber	Neoprene	No Plating	Tin/Lead	RoHS Tin	Reflow Edge Tin	Gold	Sulfamate Nickel	Silicone over SST	Fluorosilicone over SST	Chem-Film Aluminum	RoHS compliant Chem-Film	Cadmium Threaded Inserts
Groove Mounted	Spira-Shield	2	✓	--	✓	✓	✓	✓	✓	✓	--	✓	3	✓	✓	✓	✓	--	--	--	--	--
	Quick-Shield	1	--	✓	✓	✓	--	--	--	--	--	✓	--	--	--	--	--	--	--	--	--	--
	Ultra Quick-Shield	2	--	✓	✓	✓	--	--	--	--	--	--	3	✓	✓	✓	✓	--	--	--	--	--
	Flexi-Shield	2	✓	✓	--	--	✓	✓	✓	--	--	✓	3	✓	✓	✓	✓	--	--	--	--	--
	Enduro-Shield	2	✓	✓	--	--	✓	✓	✓	--	--	✓	3	✓	✓	✓	✓	--	--	--	--	--
	"D" Multi-Seal	2	✓	✓	--	✓	✓	✓	✓	--	--	✓	3	✓	✓	✓	✓	--	--	--	--	--
Surface Mounted	Basic Multi-Seal	2	✓	✓	✓	✓	✓	✓	✓	✓	--	✓	3	✓	✓	✓	✓	--	--	--	--	--
	Quick-Strip	2	✓	✓	--	✓	--	--	--	--	✓	✓	3	✓	✓	✓	✓	--	--	--	--	--
	Spira-Strip	2	✓	✓	✓	✓	✓	✓	✓	✓	--	✓	3	✓	✓	✓	✓	--	--	--	--	--
Connector Gaskets	EOCS	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	✓	✓	--	--	--
	FMECS, ECS, CS	2	✓	✓	✓	--	✓	✓	✓	✓	--	--	3	✓	--	--	✓	✓	--	--	--	--
	SSCG & CS	2	✓	✓	✓	--	✓	✓	✓	--	--	--	3	✓	--	--	✓	✓	3	✓	--	--
Filters	Fan Filters	2	✓	✓	✓	--	--	✓	--	--	✓	✓	3	✓	--	✓	✓	--	--	3	✓	--
	Air Vent Filters	2	✓	✓	✓	--	--	--	--	--	--	✓	3	✓	--	✓	✓	--	--	3	✓	3

# REACH Compliant Products Table:

1 = Compliant, 2 = Compliant Options Available, 3 = Not Compliant, -- = Not Applicable, ✓ = Available Option

Standard Material

Rev: 5/11/2021

Type	Product	REACH Rating	Material		Cord						Plating					Frame				Inserts		
			Beryllium Copper	Stainless Steel	No Cord	PVC	Solid Fluorosilicone	Space Qualified Silicone	Solid Silicone	Thermal Plastic Rubber	Neoprene	No Plating	Tin/Lead	RoHS Tin	Reflow Edge Tin	Gold	Sulfamate Nickel	Silicone over SST	Fluorosilicone over SST	Chem-Film Aluminum	RoHS compliant Chem-Film	Cadmium Threaded Inserts
Groove Mounted	Spira-Shield	1	✓	--	✓	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	✓	✓	--	--	--	--	--
	Quick-Shield	1	--	✓	✓	✓	--	--	--	--	--	✓	--	--	--	--	--	--	--	--	--	--
	Ultra Quick-Shield	1	--	✓	✓	✓	--	--	--	--	--	--	✓	✓	✓	✓	✓	--	--	--	--	--
	Flexi-Shield	1	✓	✓	--	--	✓	✓	✓	--	--	✓	✓	✓	✓	✓	✓	--	--	--	--	--
	Enduro-Shield	1	✓	✓	--	--	✓	✓	✓	--	--	✓	✓	✓	✓	✓	✓	--	--	--	--	--
	"D" Multi-Seal	1	✓	✓	--	✓	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	✓	--	--	--	--	--
Surface Mounted	Basic Multi-Seal	1	✓	✓	✓	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	✓	✓	--	--	--	--	--
	Quick-Strip	3	✓	✓	--	✓	--	--	--	--	3	✓	✓	✓	✓	✓	✓	--	--	--	--	--
	Spira-Strip	1	✓	--	✓	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	✓	✓	--	--	--	--	--
Connector Gaskets	EOCS	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	✓	✓	--	--	--
	FMECS, ECS, CS	1	✓	✓	✓	--	✓	✓	✓	✓	--	--	✓	✓	--	--	✓	✓	--	--	--	--
	SSCG	2	✓	✓	✓	--	✓	✓	✓	--	--	--	✓	✓	--	--	✓	✓	3	✓	--	--
Filters	Fan Filters	2	✓	✓	✓	--	--	✓	--	--	✓	✓	✓	--	✓	✓	--	--	3	✓	--	--
	Air Vent Filters	2	✓	✓	✓	--	--	--	--	--	--	✓	3	✓	--	✓	✓	--	--	✓	✓	3