



22.02.2022

Subject: Hazardous Substances/Substances of Concern

To Whom It May Concern:

Ereğli Demir ve Çelik Fabrikaları T.A.Ş. (ERDEMİR) do not routinely analyze for presence of following hazardous substances to control the impact of environmentally sensitive material getting into our steel products.

- Lead, Mercury, Cadmium, or Chromium+6,
- Ozone depleting chemicals,
- Environmentally persistent transformer fluids (Polychlorinated Biphenyls, PCBs) or flame retardants (Polybrominated Biphenyls, PBBs, etc.)
- Dibutyl Phthalate (DBP)
- Diethyl Hexyl Phthalate (DEHP)
- Benzyl Butyl Phthalate (BBP)
- Diisobutyl Phthalate (DIBP)

Because, they are not a part of the manufacturing process, add no inherent quality to the product, and are typically, if present, below threshold concentrations.

1. Lead and Cadmium, due to the manufacturing process, are inherent in the steel as a tramp material and in most cases be present at less than 0.001 % per weight. Mercury, if present, would be less than 0.0001 % per weight. Chromium is routinely added to certain steel products, but steel manufacturing process prevents the formation of the Cr+6 phase in the final product. Cr+6 may be present at less than 0.001 % per weight. This conclusion is confirmed by our laboratory and an independent testing laboratory, Intertek Laboratory accredited by the TURKAK (Turkish Accreditation Institution). RoHS Test was performed according to Rohs 3 Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
2. Ozone depleting chemicals and environmentally persistent transformer fluids / flame-retardants are not a part of the steel manufacturing process and would not survive in the steel manufacturing process. These hazardous chemicals are not added as a part of the post manufacturing process.



EREĞLİ DEMİR VE ÇELİK FABRİKALARI T.A.Ş.

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RoHS Proposed Maximum Limits were approved by EU council in 2011.

EU RoHS specifies maximum levels for the following 10 restricted substances. The first six applied to the original RoHS while the last four were added under RoHS 3, which took effect July 22, 2019.

Cadmium (Cd):	% 0.01 per weight 100 (ppm)
Lead (Pb):	% 0.1 per weight 1000 (ppm)
Mercury (Hg):	% 0.1 per weight 1000 (ppm)
Hexavalent Chromium (Cr6+):	% 0.1 per weight 1000 (ppm)
Poly Brominated Biphenyls (PBB):	% 0.1 per weight 1000 (ppm)
Poly Brominated Diphenyl Ethers (PBDE)	% 0.1 per weight 1000 (ppm)
Phthalates (DBP, DEHP, BBP, DIBP)	50 (ppm)

3. Ereğli Demir ve Çelik Fabrikaları T.A.Ş. (ERDEMİR) routinely scrutinizes to detect the radioactivity levels of scrap that getting into our steel products (radioactivity detection is accomplished in accordance with "The Instructions of Controlling Radiation Level of Scrap"). This detection is carry out by use of portable and fixed detection equipment. Monitors are installed to control the possibility of errant radioactivity from scrap to contaminate our steel products. Radioactivity detection is also done for every heat in steel making process. Radiation levels are below threshold concentrations or no inherent quantity for both scrap and samples of liquid steel. Typical measured radiation level is less than 22 μ rem / hr (specification max: 40 μ rem/ hr).

If you have any questions, please advise.

Best Regards,

Serkan DİKEÇ
Quality Metallurgy
Manager

Sinan BOZKURT
Executive Vice President
Operations

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