




ENVIRONMENTAL PROTECTION AT FERRO

2020





Ferro is committed to minimizing the environmental impact from our operations and our products.

It is our ongoing focus to continue developing environmental programs to protect our environment, employees, communities, and future generations. Our facilities utilize the skills of experienced professionals who implement and actively manage procedures to ensure compliance with all relevant environmental regulations. Our Ferro Environmental Standards management system provides the guidelines to go beyond compliance, requiring each of our facilities to establish, implement, and audit environmental programs. Through these efforts, we can protect our planet and future generations while creating value for our business, customers, employees, and communities.



100 YEARS AHEAD





MANAGEMENT OF RISKS AND OPPORTUNITIES

Environmental Policy

Environmental compliance is a core value to Ferro. Our Environmental Management Policy Guide (MPG) provides the expectations and guidelines that all Ferro directors, officers, employees, and contractors must follow. It is Ferro Corporation's policy to comply with environmental laws and regulations applicable to its businesses around the world and to manage its businesses in an environmentally responsible manner. Where our Policy, procedures, and external commitments are more stringent than local laws, we operate in accordance with our standards.

(For more information reference MPG 9.5.0)

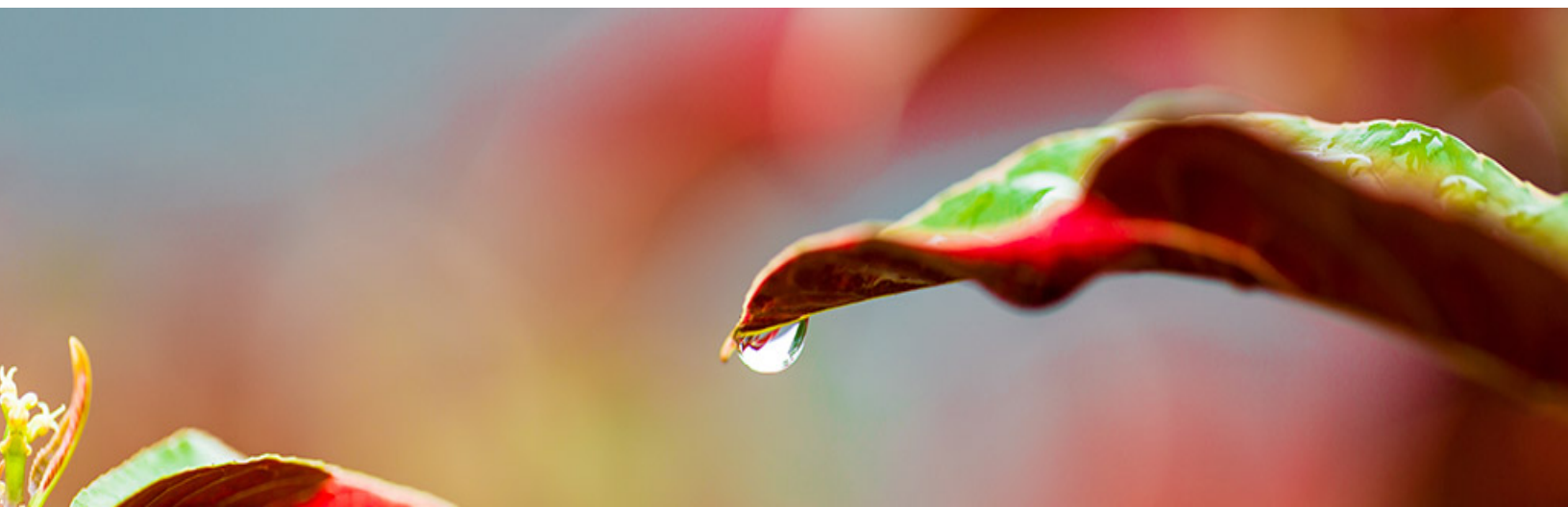
Supplier Expectations

Ferro suppliers are expected to operate in an environmentally responsible manner to minimize adverse effects on the environment in alignment with the Ferro Environmental Management Policy Guide (MPG 9.5.0). Our suppliers must comply with all applicable environmental laws and follow all applicable requirements related to permitting, licensing, and reporting. Suppliers are encouraged to conserve energy and natural resources, to avoid the use of hazardous materials where practical, and to engage in activities that reuse and recycle materials.

(For more information reference Ferro Supplier Code of Conduct)

Investments in our Environmental Programs

Ferro is dedicated to investing in the future of our planet and our people. Every year, our Ferro facilities develop and execute projects to improve EHS processes and systems. We intend to continue to invest in environmental, health, and safety protection and improvements in a timely manner consistent with available technology.

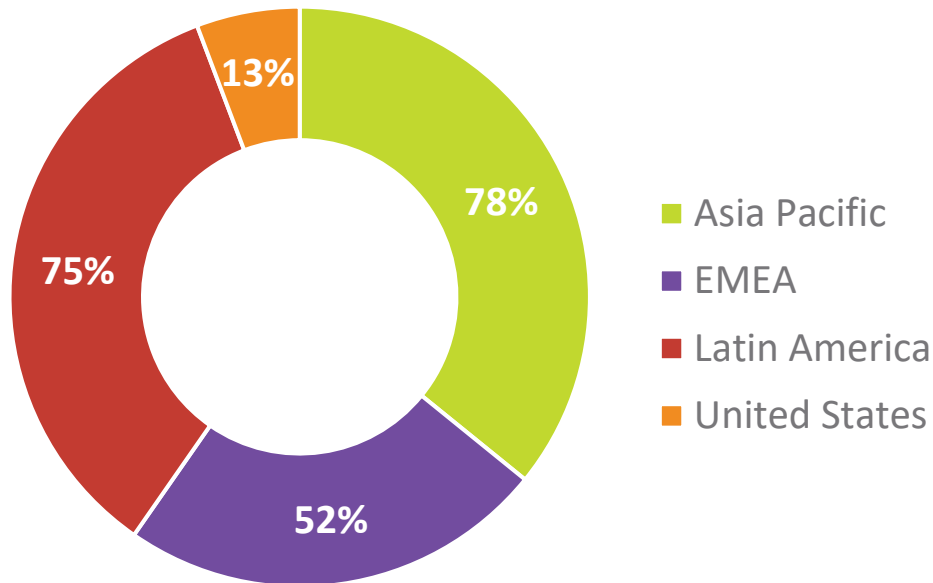


Ferro's Environmental Management System

In 2013, the Ferro Corporate EHS organization developed the Ferro Environmental Standards (FES) as our global Environmental Management System (EMS). The FES Management System consists of 151 requirements that are based on the International Organization for Standardization (ISO) 14001:2015 Environmental management systems, industry best practices, and Ferro-specific standards. The purpose of our FES Management System is to go beyond compliance with environmental regulations to reduce our global environmental footprint. Our Standards help our sites reduce their environmental impact through proactive programs that address energy conservation, pollution prevention, water and waste management, risk reduction, internal auditing, and additional criteria.

While not a company-wide requirement, many of our facilities are certified to ISO 14001:2015. In fact, more than half of our Ferro manufacturing facilities are currently ISO 14001:2015 certified.

% of ISO 14001:2015 Certified Facilities by Region



In addition, by complying with our internal Ferro Environmental Standards, the rest of our facilities have processes and documentation in place consistent with ISO 14001 standards. We estimate that these facilities achieve on average 81% compliance with ISO 14001.

CARBON & CLIMATE

Ferro acknowledges the scientific research that human activity, including commercial activity, has contributed to climate change, and that our business may be impacted by the effects of climate change. Our senior management reports on environmental matters to our Board of Directors, which provides general oversight of risks and opportunities for our business, including climate-related risks and opportunities.

We continue to evaluate new opportunities surrounding GHG emissions and energy to minimize our carbon footprint. Ferro is working to establish targets for our GHG emissions in order to reduce these emissions over the next several years. Regarding energy, Ferro currently uses a combination of non-renewable and renewable energy sources throughout our facilities. We are seeking ways to effectively monitor our energy usage across our global operations. We intend to identify strategies to improve energy efficiency at our plants and transition into more renewable energy sources over time.





NATURAL RESOURCES

Ferro recognizes the importance of protecting our planet's limited supply of natural resources. All Ferro facilities are required to maintain operating permits and comply with permit requirements to ensure that water is used and managed efficiently. In addition, all facilities are obligated to adhere to local regulations regarding wastewater discharge limits. Our Ferro Environmental Standards outlines additional requirements regarding wastewater to ensure wastewater is managed in accordance with leading industry practices.

WASTE & TOXICITY

At Ferro, we handle, process, use and store hazardous materials as part of the production of some of our products. As a result, we operate production facilities that are subject to a broad array of environmental laws and regulations in the countries in which we operate, particularly for wastes, wastewater discharges and air emissions. Our policy is to operate our plants and facilities in a manner that protects the environment and the health and safety of our employees and the public.

Emissions and Releases

Ferro monitors and manages emissions and releases from our operations. We seek to minimize spills and implement proactive measures to prevent them. Our production sites develop spill prevention procedures and secondary containment procedures that are consistent with good engineering principles. In addition, our facilities are required to follow local regulations regarding air emission limits in the countries in which they operate. We seek to improve our environmental performance and to protect public health and our neighboring ecosystems.

Waste Management

Ferro is committed to establishing and carrying out initiatives to reduce waste and to minimize releases to the environment. Each Ferro facility is required to manage its hazardous and non-hazardous waste in accordance with our Environmental Policy and Ferro Environmental Standards management system. This includes assessing and complying with the applicable regulatory requirements to ensure sources of waste are properly identified, waste streams are stored in compatible containers that are properly labeled and in good condition, and waste is transported and disposed of by licensed vendors. In addition to executing strategies to manage waste in an environmentally responsible and compliant manner, our sites are also required to implement and maintain regulated waste reduction and waste recycling programs. These programs include identifying and evaluating specific targets for reducing hazardous and non-hazardous waste.

These requirements are applicable not only to production waste but also to business waste. Ferro Corporation is currently headquartered in a building with a comprehensive office recycling and waste management program. Ferro HQ recycles most of its major waste streams, including paper, plastics, metals, electronics, batteries, toner cartridges, K-cups, and more. In addition, it is encouraged that all corporate employees avoid wasteful practices, such as printing documents or using disposable coffee cups, to reduce the amount of waste generated at our headquarters. Environmental compliance and protection is considered a responsibility of all Ferro employees – from our corporate headquarters in the United States to our manufacturing plants around the world.





Where innovation
delivers performance

Ferro Corporation

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