

Product Introduction: *Hi – FeTi*®

1. Introduction

Hi – FeTi® is a new product in the *Hi – Core*® family designed to be used in steel that requires pure titanium additions. The technology allows for higher and/or more stable levels of titanium to be achieved with optimal and reduced consumption.

Hi – FeTi® is unique in the fact that ferro titanium powder is encased in our unique and patented welded seam sheath.

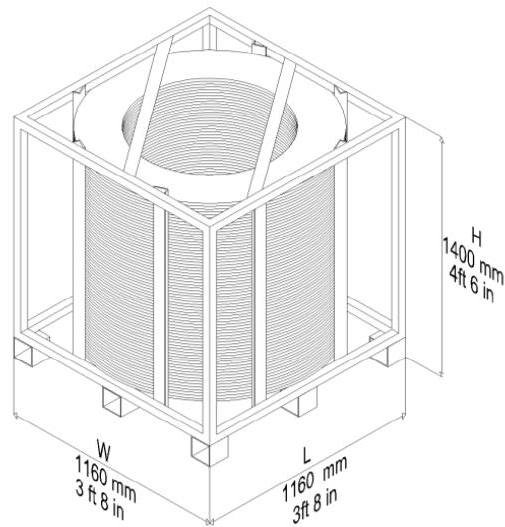
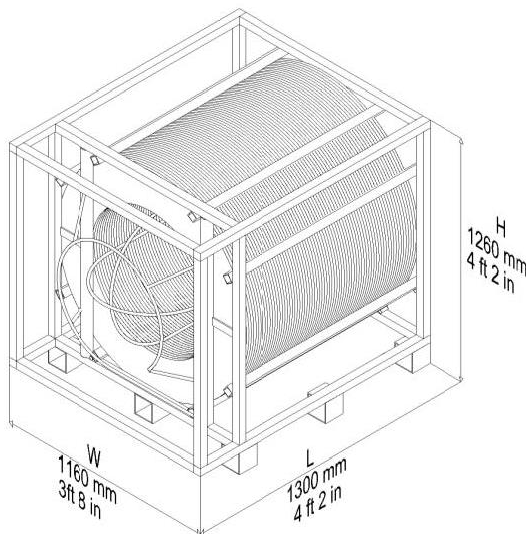
2. Technical specification

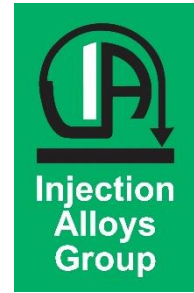
Chemical Analysis:

Titanium 70%



	Metric	Imperial
Wire diameter	13 mm	0.551 in
Powder weight	409 g/m	0.275 lb./ft.
Wire weight	730 g/m	0.491 lb./ft.
Net powder weight	1554 kg	3426 lb.
Coil gross weight	2774 kg	6116 lb.





Product Introduction: *Hi – FeTi*®

3. Previous results

Case Study 1

The facility produces slabs via the electric arc furnace production process, after conversion the steel is refined at treatment stations. Point of control is at the treatment station. *Hi – FeTi*® was tested at these premises and is now the preferred titanium addition method.

The aim of the trial was to develop a titanium addition that was more stable and repeatable than conventional wire or lumpy addition.

Standard deviation was decreased from 8ppm to 2ppm in last sample.

Overall the recovery was increased slightly with a marked difference in reliability and stability.

Case Study 2

The facility produces billets via the blast furnace production process, after conversion the steel is refined at ladle furnace and vacuum degasser. Point of addition and control is the vacuum degasser. *Hi – FeTi*® was tested at these premises and is now the preferred titanium addition method.

The facility was investigating increased yield and stability and the conventional FeTi wire had numerous breakages as well as inconsistent fill rates.

	FeTi CCW	<i>Hi – FeTi</i> ®
Average amount FeTi injected per treatment	37.4 kg	15 kg
Average amount of wire injected	96 m	37 m
Average recovery	55 %	90.2 %
Standard deviation	22	10

Overall an increase in recovery and stability was achieved.