

TECHNICAL DATA SHEET (TDS) — FERRO SILICON ZIRCONIUM (FeSiZr)

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Product	Ferro Silicon Zirconium (FeSiZr)
Issued By	ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ
Companion Document	Safety Data Sheet (MSDS) ATB-SDS-FEALLOY-FESIZR-2026-001

1. PRODUCT IDENTIFICATION

Product Name	Ferro Silicon Zirconium
Abbreviation	FeSiZr
Grades	FeSiZr 20
HS Code (indicative)	7202.99
Prepared with Reference to	International industry inoculant grades
Product Description	Zirconium-bearing ferrosilicon alloy produced in submerged arc furnaces; supplied as crushed and screened granules.

All chemical values are expressed as percentage by mass (% w/w). Country of origin, quantity, packing and the final guaranteed values for each shipment are stated in the Sales Contract, the Certificate of Origin and the Certificate of Quality issued at loading.

2. CHEMICAL SPECIFICATION

Parameter (% by mass)	FeSiZr 20
Zirconium (Zr)	20.0 min
Silicon (Si)	45.0 – 60.0
Aluminium (Al)	2.0 max
Carbon (C)	0.50 max
Phosphorus (P)	0.05 max
Sulphur (S)	0.02 max
Iron (Fe)	Balance
Size (mm)	4 – 10
Size conformity	90% min

3. PHYSICAL CHARACTERISTICS AND SIZING

Appearance	Metallic silver-grey granules
Physical State	Solid
Standard Size (mm)	FeSiZr 20: 4 – 10
Alternative Sizes (mm)	1 – 4; 10 – 50
Size Conformity	90% min within the specified range, determined by sieve analysis at loading

4. PACKAGING AND MARKING

- Packing: jumbo bags with inner polyethylene liner.

- Container loading: 20' containers, approximately 20 – 25 MT net per container depending on density and packing.
- Marking on each package: product name, grade, lot / heat number, net and gross weight, package number and contract reference. Neutral packing is available.

5. APPLICATIONS

- Inoculation of grey and ductile cast iron.
- Deoxidation and nitrogen fixing in steel.
- Grain refinement.

6. SAMPLING, ANALYSIS AND INSPECTION

- Sampling and sample preparation prepared with reference to ISO 3713 and ISO 4552; sieve analysis with reference to ISO 4551.
- Carbon and sulphur by combustion–infrared analysis; principal and residual elements by ICP-OES, XRF or wet chemical methods.
- Independent inspection of quality, weight and packing at loading by an internationally recognised surveyor (SGS, Intertek, Bureau Veritas or equivalent, as agreed in the Sales Contract).
- The Certificate of Quality issued by the appointed surveyor at loading is final and binding for quality and size, unless otherwise agreed in the Sales Contract.

7. SHIPPING DOCUMENTS

Document	Issued By
Commercial Invoice	ATABAŞ
Packing List	ATABAŞ
Certificate of Quality / Analysis	Independent surveyor at loading
Certificate of Weight	Independent surveyor at loading
Certificate of Origin	Chamber of Commerce
Bill of Lading / CMR	Carrier
Safety Data Sheet (MSDS)	ATABAŞ

8. STORAGE AND HANDLING

- Store in dry, covered and well-ventilated areas on hard standing; keep packages closed and protected from rain, condensation and standing water.
- In contact with water or moisture the product may evolve hydrogen and traces of phosphine and arsine; ventilate holds, containers and warehouses before entry and monitor the atmosphere.
- Additions to molten metal shall be dry and preheated where practicable; moist material in contact with molten metal can cause violent steam explosions.
- Avoid dust generation; segregate from acids, alkalis and oxidising agents; keep grades and lots separated to prevent mixing.
- Detailed safety information is given in Safety Data Sheet ATB-SDS-FEALLOY-FESIZR-2026-001.



Huzur Mahallesi, Azerbaijan Caddesi,
Skyland İstanbul 4 B Blok, 27. Kat,
Daire 389-390-391, Sarıyer / İstanbul, Türkiye



+90 212 801 64 60



info@atabas.com.tr



www.atabas.com.tr

Vergi No: 8360813811

MERSİS No: 0836081381100001

Refineries and Companies
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9. SANCTIONS AND TRADE COMPLIANCE

ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ conducts its business in full compliance with the economic and trade sanctions regimes administered by the United States (OFAC), the European Union, the United Kingdom (OFSI) and the United Nations Security Council. ATABAŞ does not work with sanctioned countries, sanctioned companies, sanctioned individuals or sanctioned vessels, and does not supply, source, finance or transport goods in breach of these regimes.

All counterparties are subject to Know-Your-Customer and sanctions screening before contract signature and throughout performance. ATABAŞ reserves the right to suspend or terminate any transaction which may expose it to sanctions risk.

10. GENERAL

The values in this document are specification limits for the grades listed. The final guaranteed values, quantity, sizing and packing for each shipment are those stated in the Sales Contract and in the Certificate of Quality issued at loading. This document does not constitute a warranty of fitness for any particular purpose; the buyer is responsible for determining the suitability of the product for its own process.

Prepared By	Technical & Quality Department, ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ
Approved By	Hakan ATABAŞ, Founder & CEO
Date	26 October 2026
Signature & Company Stamp	



Huzur Mahallesi, Azerbaycan Caddesi,
Skyland İstanbul 4 B Blok, 27. Kat,
Daire 389-390-391, Sarıyer / İstanbul, Türkiye



+90 212 801 64 60



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