ERASTEEL



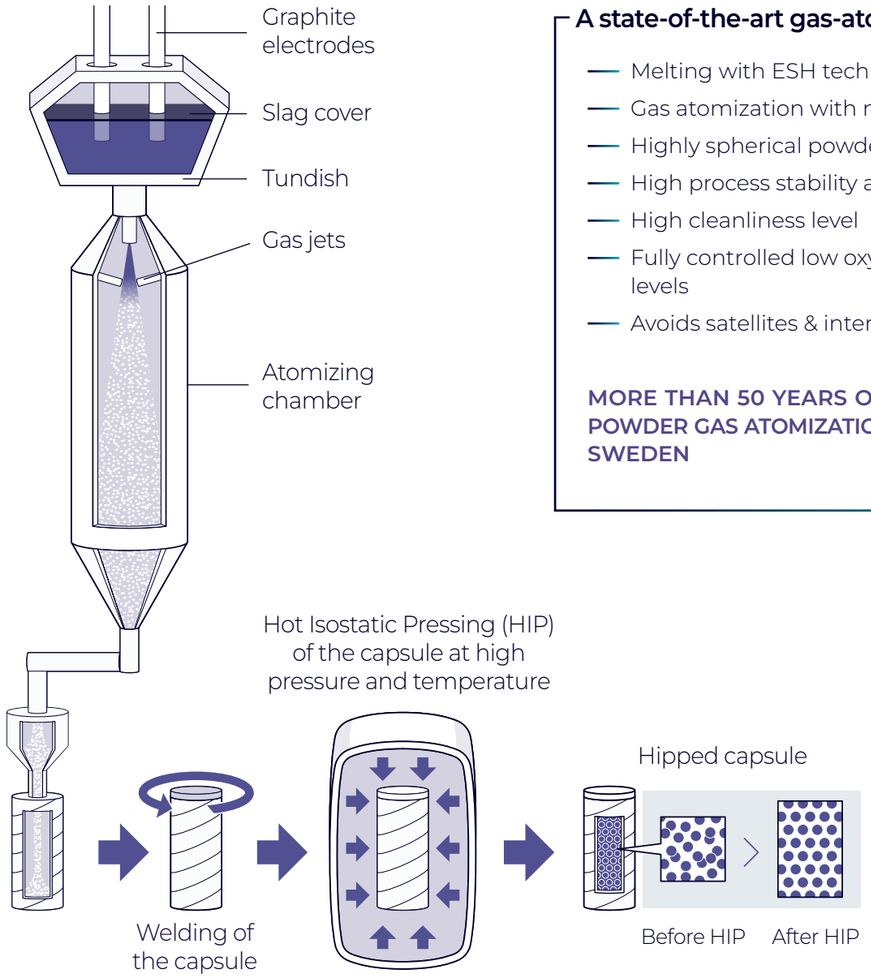
PEARL®

METAL POWDERS FOR HIPPING

Pearl®

With over 50 years of experience in gas atomization, Erasteel is the global leader in Powder Metallurgy High-Speed Steels. Thanks to its recognized expertise and technological know-how, Erasteel offers **reliable, customized solutions tailored to the most demanding industries:** automotive, motorsports, aerospace, electronics, energy, construction, and high value-added tooling. Our advanced **PEARL® Hot Isostatic Powder range** includes high-performance solutions such as High-Speed Steel, tool steel, and stainless-steel powders.

POWDER GAS ATOMIZATION PROCESS



A state-of-the-art gas-atomization process

- Melting with ESH technology
- Gas atomization with nitrogen
- Highly spherical powder morphology
- High process stability and reproducibility
- High cleanliness level
- Fully controlled low oxygen and carbon levels
- Avoids satellites & internal porosity

MORE THAN 50 YEARS OF EXPERIENCE IN POWDER GAS ATOMIZATION AT SÖDERFORS, SWEDEN

APPLICATIONS

- Mechanical components, injection screws and segments
- Cutting tools
- Tooling

HOT ISOSTATIC POWDER GUIDE

STAINLESS STEELS		COMPOSITION						
ERASTEEL	STANDARDS	C	Cr	Mo	W	Co	V	Others
Pearl® 10V	10V-12	2.45	12.4	1.3	-	-	10.0	-
Pearl® 11K	MV 11K	2.55	25.3	1.1	-	-	3.6	-
Pearl® 235	X235	2.45	20.0	1.3	-	-	4.3	Nb = 1.9
Pearl® 260	X260 Cr	2.70	26.0	1.1	-	-	2.3	Nb = 1.2
Pearl® 2745	APM 2745	1.90	20.0	1.1	0.6	-	4.0	
Pearl® 440B	440B	0.90	18.0	1.1	-	-	0.1	

HIGH-SPEED STEELS		COMPOSITION						
ERASTEEL	STANDARDS	C	Cr	Mo	W	Co	V	Others
Pearl® 2004	M4	1.40	4.2	5.0	5.8	-	4.1	-
Pearl® 2005	-	1.50	4.0	2.5	2.5	-	4.0	-
Pearl® 2009	APM 2709	1.90	5.25	1.3	-	-	9.1	-
Pearl® 2011	APM 2710	2.45	5.3	1.3	-	-	9.8	-
Pearl® 2012	-	0.60	4.0	2.0	2.1	-	1.5	Si = 1.0
Pearl® 2015	-	1.6	4.0	-	12	5.0	5.0	-
Pearl® 2023	APM 2723	1.28	4.0	5.0	6.4	-	3.1	-
Pearl® 2023S	APM 2823	1.28	4.1	5.0	6.4	-	3.1	S = 0.07
Pearl® 2030	-	1.28	4.2	5.0	6.4	8.5	3.1	-
Pearl® 2052	-	1.67	4.8	2.0	10.5	8.0	4.9	-
Pearl® 2053	-	2.48	4.2	3.1	4.2		8.0	-
Pearl® 2060	1.3241	2.30	4.2	7.0	6.5	10.5	6.5	-
Pearl® 2060S	-	2.30	4.2	7.0	6.5	10.5	6.5	S = 0.07

TOOL STEELS		COMPOSITION						
ERASTEEL	STANDARDS	C	Cr	Mo	W	Co	V	Others
Pearl® 2766	APM 2766	0.30	3.0	2.8	-	5.0	0.5	-
Pearl® D2	D2	1.55	11.5	0.7	-	-	1.0	-
Pearl® D7	1.2380	2.30	12.5	1.0	-	-	4.0	-
Pearl® H13	H13	0.40	5.0	1.3	-	-	1.0	-
Pearl® O2	1.2842	0.90	0.40	-	-	-	0.1	Mn = 2.00

Packaging

- Metallic drums: 250 kg
- Barrels
- Big bags
- Customer-specific packaging on request

Features and benefits

- Standard & customized compositions
- Particle size up to 500 µm (35 mesh)
- High powder flowability
- Best packing density
- Flexible service

PEARL® is a registered trademark of Erasteel.



ERASTEEL.COM

Metal Powders for Hipping_EN_2026 - This document is for information only and does not create any binding contractual obligations