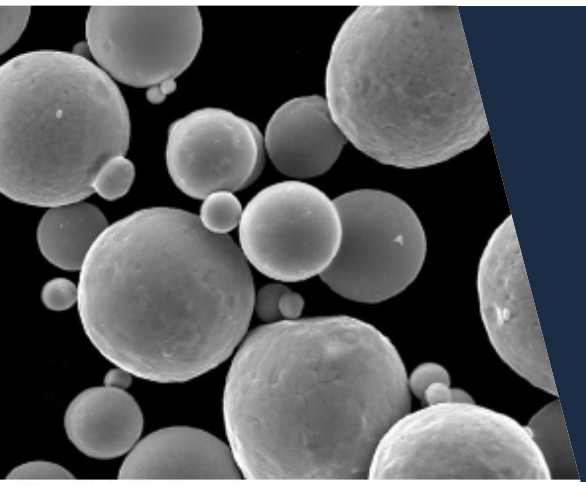
FSLA



Free Sintering Low alloy Steel

Dual phase steels is a special class of low alloyed steels which combines the ductility and formability given by the ferrite matrix with the good strength offered by the islands of martensite. The special microstructure is a result of steel chemistry and inter-annealing heat treatment which is mandatory to obtain the correct properties. FSLA developed by GKN Hoeganaes has a large versatility being capable to cover properties for all different grades of dual phase steels from DP 600 to DP 980 function of the heat treatment applied.

CONTACT INFORMATION
Additive Materials Expert
additivematerials@gknpm.com

- Metal Powder for Additive Manufacturing
- Particle Size Engineered for Binder Jetting
- Rigorous Quality Testing of Each Powder Lot
- Heat-treatable to ulimate tensile strength 600 to 980 MPa

Typical Powder Characteristics

Laser Particle Size Analysis			Powder Properties	
D10 [µm]	D50 [µm]	D90 [µm]	Apparent Density [g/cm³]	Tap Density [g/cm³]
6	14	25	3.10	4.95

Dual Phase Low alloy Steel

Elements [wt.-%]	Fe	Si	Cr	Mo	Mn	Cu & Ni	Microalloying Elements
Nominal	Bal.	1.58	1.58	1.58	<0.30	<0.30	<0.50