

材料手册

Material Data Sheet

基本信息

Basic Information



材 料	FS AlSi10Mg
Material	

化学成分

Chemical Composition

元素	含量
Element	Content
Si	9-11 wt.%
Mg	≤0.45 wt.%
Zn	≤0.10 wt.%
Cu	≤0.05 wt.%
Fe	≤0.15 wt.%
Ni	≤0.05 wt.%
Al	余量
	Balance

工件性能

Properties of Parts

	原始态	热处理态①
	As Built	Heat treated①
密度	≥2.65 g/cm ³	≥2.65 g/cm ³
Density		
抗拉强度(R _m) Tensile	430±30 MPa	350±30MPa
Strength(R _m) 屈服强		
度(R _{p0.2})	276±30 MPa	240±30MPa
Yield Strength(R _{p0.2})		
断后伸长率(A _{50mm}) Elongation	3.0±1.0 %	6.0±1.0%
After Fracture(A _{50mm})		

①热处理工艺：300°C保温 2h

①Heat treatment: 2h at 300°C

声明：以上参数均为华曙测试，工件实际性能可能会因原料批次、烧结参数、操作条件等不同而有差异。

Disclaimer: Parameters above are tested by ourselves. Actual part properties may vary significantly from those listed above based on raw material batch, processing parameters and operating conditions.