

積層造形用 金属粉末

Metal Powder for Additive Manufacturing

FAM Series 積層造形用 純銅及び銅合金粉末

Copper and Copper Alloy Powder for Additive Manufacturing

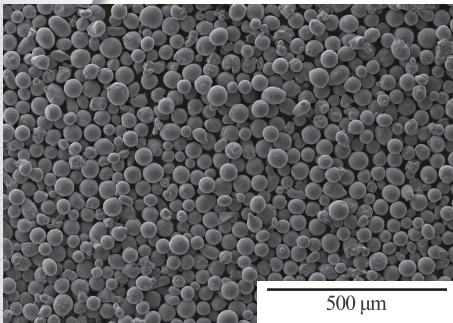
FAM-G105 時効析出型銅合金粉末

Copper alloy powder for PBF and DED

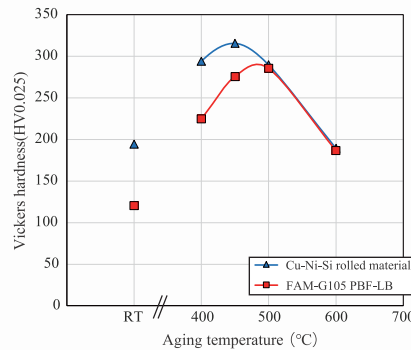
特長 Advantages

ガスアトマイズ法により製造した球状で、流動性のあるCu-Ni-Si合金粉末。造形後の熱処理のみでNi₂Si析出による析出強化が可能。

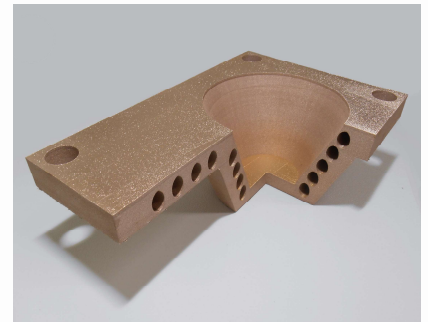
The spherically formed gas atomized Cu-Ni-Si alloy powder has excellent fluidity for additive manufacturing. Precipitation strengthening by Ni₂Si precipitation is possible by heat treatment after forming.



PBF-LB FAM-G105HL 10-45 μm
(SEM image ×100)



FAM-G105HL時効処理後のビッカース硬さ
Vickers hardness after aging treatment



PBF-LB 造形例
Molding sample for PBF-LB

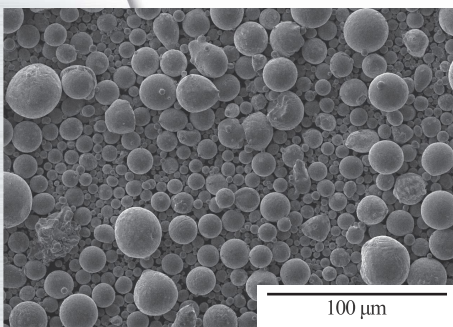
FAM-G110 高強度銅合金粉末

High strength copper alloy powder for PBF and DED

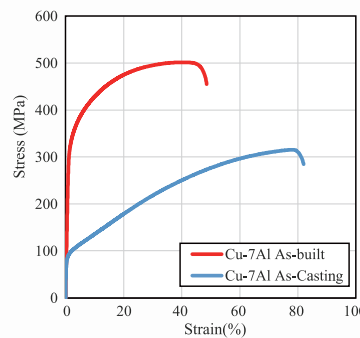
特長 Advantages

ガスアトマイズ法により製造した球状で、流動性のあるアルミニウム青銅合金粉末。積層造形法による特殊な組織により、0.2%耐力が従来製法よりも高い。

The spherically formed gas atomized aluminum bronze alloy powder has excellent fluidity for additive manufacturing. The special structure of the additive manufacturing method produces higher 0.2% yield strength than conventional manufacturing methods.



PBF-LB Cu-7Al 10-45 μm
(SEM image ×500)



Cu-7Al 応力-ひずみ曲線
Stress-strain curve for Cu-7Al Alloy



PBF-LB 造形例
Molding sample for PBF-LB



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