積層造形用 金属粉末
Metal Powder for Additive Manufacturing

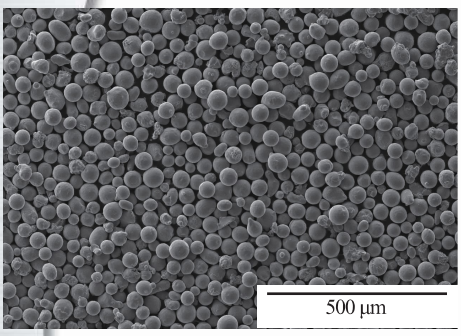
FAM Series 積層造形用 純銅及び銅合金粉末
Copper and Copper Alloy Powder for Additive Manufacturing

FAM-G105 時効析出型銅合金粉末
Copper alloy powder for PBF and DED

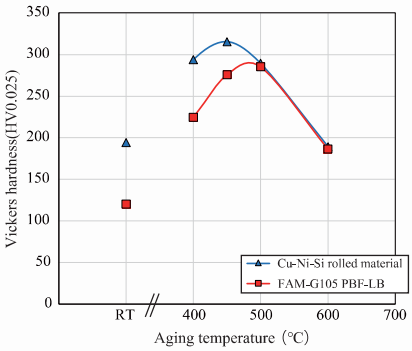
特長 *Advantages*

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Ni_2Si析出による析出強化が可能。

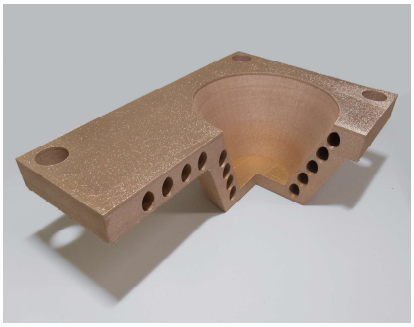
The spherically formed gas atomized Cu-Ni-Si alloy powder has excellnt fluidity for additive manufacturing.
Precipitation strengthening by Ni_2Si precipitation is possible by heat treatment after forming.



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



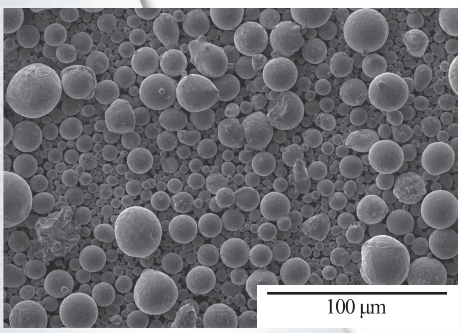
PBF-LB 造形例
Molding sample for PBF-LB

アルミニウム青銅系合金 高強度銅合金粉末
Aluminum bronze alloys *High strength copper alloy powder for PBF and DED*

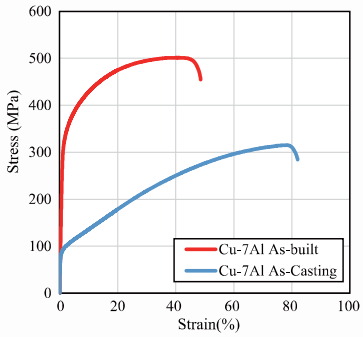
特長 *Advantages*

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。

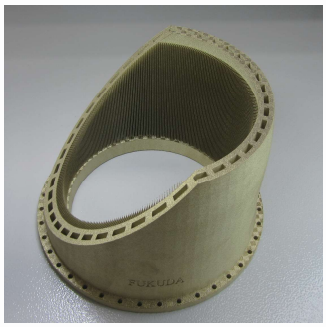
The spherically formed gas atomized aluminum bronze alloy powder has excellnt fluidity for additive manufacturing.
The special structure of the addtive manufacturing method produces higher 0.2% yield strength than conventional manufacturing methods.



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



Cu-7Al 応力ーひずみ曲線
Stress-strain cruve for Cu-7Al Alloy



PBF-LB 造形例
Molding sample for PBF-LB

FUKUDA
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FAM 製品紹介 HP