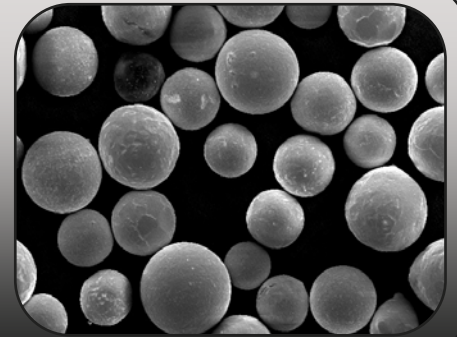


## Product Datasheet

**WLC CFS-4041**  
**WLC CFS-4042**

**New Product Notice**



### Product Overview

C&M Technologies is pleased to introduce our new WLC CFS-4041 and CFS-4042 material. The challenges of wear protection are demanding, Applicators and End-users require products to exacting standards. One of the common issues Applicators and End-users have experienced in Laser Clad Overlays is undesirable porosity in the both the as-clad/as-ground condition. Given these challenges C&M Technologies developed a new 60/40 blend to dramatically reduce the porosity seen by many in industry. The new material advancements provide an increasingly homogenous structure, more uniform appearance and improved wear characteristics in certain environments. WLC CFS-4041 material is best suited in the most aggressive environments with counter-part wear and when extreme abrasion resistance is needed. WLC CFS-4042 provides an increased corrosion resistance at same wear resistance.

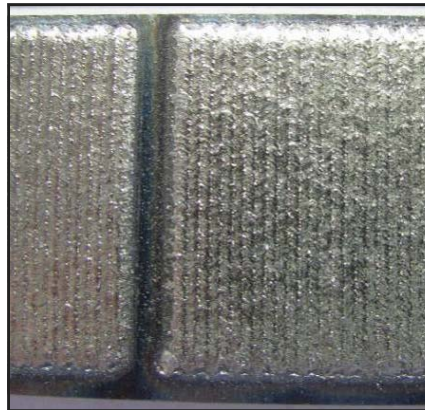
### Material Properties

Composition: CFS (Carbide Fused Spherical)  
 and Ni-base alloy (proprietary chemistry)

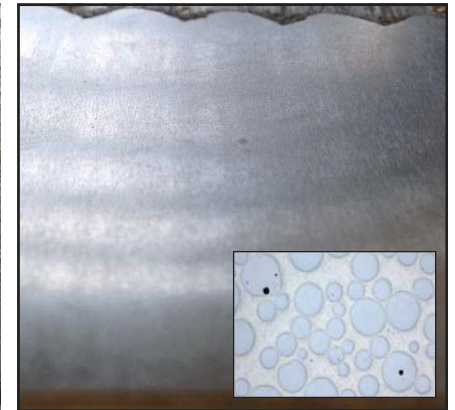
Grain Sizes: -150 +45 $\mu$ m<sup>1</sup>

Morphology: Spheroidal

### Typical Structure



**CFS-4041 (as-clad)**



**CFS-4041 (as-ground)**

### Typical Clad Properties

Hardness :  
 CFS 2800 - 3200 HV 0.1  
 Ni-based Alloy 40 HRc

Porosity (%) : < 1

Deposit Efficiency (%) : >80%<sup>2</sup>

**Note:** 1 other grain sizes on request

2 Deposit efficiency is influenced by process parameters

**For more information please contact :**

Europe - Jana Wieditz, +49 3695 858578 0

USA - Scott Lacourse, +1 936 244 0006

Canada - Scott Lacourse, +1 587 983 9989