

ALLOY DATA SHEET CG 3M

CORROSION RESISTANT ALLOY

REVISION: 01/90

DESCRIPTION

CG-3M is a low carbon modification of CG 8M which is used in applications where re-solution annealing after welding cannot be performed. Applications are similar to those of CF8M but the higher molybdenum content increases the resistance to sulphurous and sulphuric acid solutions and to pitting corrosion by halide solutions. The alloy is not recommended for use in nitric acid or other strong oxidizing solutions.

COMPOSITION

	<u>C</u>	<u>Mn</u>	<u>Si</u>	<u>Cr</u>	<u>Ni</u>	<u>Mo</u>	<u>P</u>	<u>S</u>
Min %				18	9	3.0		
Max %	0.03	1.50	1.50	21	12	4.0	0.04	0.04

APPLICATIONS

Impellers, propellers, pump casings, valve bodies,.

PRODUCT FORMS

Horizontal and vertical centrifugal castings; static castings.

PHYSICAL PROPERTIES

Density (lbs/in ³)	0.280
Liquidus(°F)	2560

MECHANICAL PROPERTIES

Room Temperature		
U.T.S.	K.S.I.	70 Min
Y.S.	K.S.I.	35 Min
Elong.	%	35 Min

WELDABILITY

CG-3M may be welded by the SMAW, GTAW and GMAW processes.

Electrodes

Preheat

Post weld heat treatment

Procedures for welding CG-3M alloy are available from Kubota Metal Corporation

RELATED SPECIFICATIONS

Nearest wrought grade: AISI 317L.

HEAD OFFICE, FOUNDRY & INTERNATIONAL SALES

Kubota Metal Corporation, Fahramet Division

25 Commerce Road, P.O. Box 1700,

Orillia, Ontario, Canada, L3V 6L6.

Phone (705) 325-2781

Fax (705) 325 5887