



## Carondelet Division

8600 Commercial Blvd. - Pevely, MO 63070 USA  
Phone: 636-479-4499 - Fax: 636-479-3399

## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2  
Pattern Number MCWF-C4  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMnMOD  
Ladle#1 Heat 30108

Cert Number S75920-3  
Pour Date 7/12/2005

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.4	2.8
SI	0.0	0.3	0.5
CR	18.0	18.2	18.5
NI	13.0	13.3	13.5
MO	2.1	2.3	2.5
P*	0.0	0.029	0.015
S*	0.0	0.014	0.015
N	0.24	0.25	0.28

\*P & S taken from ladle sample button and analyzed by wet chemistry, ASTM E1019-03 for sulfur and Colormetric for phosphorous.

\*P is above the specification.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

**Superior Quality Engineered Metal Products**

[www.MetalTekInt.Com](http://www.MetalTekInt.Com)



## Carondelet Division

8600 Commercial Blvd. - Pevely, MO 63070 USA  
Phone: 636-479-4499 - Fax: 636-479-3399

## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2  
Pattern Number MCWF-C4  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMnMOD  
Ladle#2 Heat 30109

Cert Number S75920-3  
Pour Date 7/12/2005

Element	Min	Actual	Max
C	0.04	0.05	0.07
MN	2.3	2.5	2.8
SI	0.0	0.4	0.5
CR	18.0	18.4	18.5
NI	13.0	13.4	13.5
MO	2.1	2.2	2.5
P*	0.0	0.033	0.015
S*	0.0	0.015	0.015
N	0.24	0.26	0.28

\*P & S taken from ladle sample button and analyzed by wet chemistry, ASTM E1019-03 for sulfur and Colormetric for phosphorous.

\*P is above the specification.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

**Superior Quality Engineered Metal Products**

[www.MetalTekInt.Com](http://www.MetalTekInt.Com)



## Carondelet Division

8600 Commercial Blvd. - Pevely, MO 63070 USA  
Phone: 636-479-4499 - Fax: 636-479-3399

## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2  
Pattern Number MCWF-C4  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMnMOD  
Ladle#3 Heat 30112

Cert Number S75920-3  
Pour Date 7/12/2005

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.6	2.8
SI	0.0	0.4	0.5
CR	18.0	18.1	18.5
NI	13.0	13.1	13.5
MO	2.1	2.2	2.5
P*	0.0	0.028	0.015
S*	0.0	0.012	0.015
N	0.24	0.26	0.28

\*P & S taken from ladle sample button and analyzed by wet chemistry, ASTM E1019-03 for sulfur and Colormetric for phosphorous.

\*P is above the specification.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

Superior Quality Engineered Metal Products

[www.MetalTekInt.Com](http://www.MetalTekInt.Com)



## Carondelet Division

8600 Commercial Blvd. - Pevely, MO 63070 USA  
Phone: 636-479-4499 - Fax: 636-479-3399

## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Cert Number S75920-3

Pattern Number MCWF-C4

Pour Date 7/12/2005

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Weighted average of 3 heats – 30108(38%),30109(23%),30112(39%) Total Weight 32028 lbs.

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.5	2.8
SI	0.0	0.4	0.5
CR	18.0	18.2	18.5
NI	13.0	13.2	13.5
MO	2.1	2.2	2.5
P*	0.0	0.030	0.015
S*	0.0	0.013	0.015
N	0.24	0.26	0.28

\*P & S taken from ladle sample button and analyzed by wet chemistry, ASTM E1019-03 for sulfur and Colormetric for phosphorous.

\*P is above the specification.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

Superior Quality Engineered Metal Products

[www.MetalTekInt.Com](http://www.MetalTekInt.Com)