



REPLACES 020215

DESCRIPTION:

McKay's **6010 PM** is an iron powder E6010 electrode. It has strong operator appeal through excellent welding characteristics that include smooth arc action and deep arc penetration. 6010 PM produces X-ray quality welds and is particularly outstanding when welding in the vertical-down position.

APPLICATIONS:

Excellent for pipes, plates, construction, shipbuilding, and general purpose fabrication and maintenance welding.

FEATURES

All-position

Welds in flat, horizontal, vertical and overhead positions

- Light slag
- Excellent vertical down
- Quick-starting efficiency
- Superior arc drive
- Excellent wash-in
- Excellent arc stability
- Excellent penetration

· Faster travel speeds

- Easy weld lay-in and smooth bead appearance
- Welding accuracy and efficiency

BENEFITS

· Quick and easy cleaning of weld bead

· Easy arc striking and increased welding

TYPICAL WELD METAL PROPERTIES* (CHEM PAD):

WELD METAL ANALYSIS		AWS Spec
Carbon (C)	0.06	Not required
Silicon (Si)	0.20	Not required
Manganese (Mn)	0.40	Not required

TYPICAL MECHANICAL PROPERTIES* (As WELDED):

		AWS Spec
Tensile Strength	76,000 psi (524 MPa)	60,000 psi
Yield Strength	61,000 psi (421 MPa)	48,000 psi
Elongation % in 2"	26%	22%
Reduction of Area	64 %	Not required

TYPICAL CHARPY V-NOTCH IMPACT VALUES*(As WELDED):

Avg. at -20°F (-29°C)	34 ft•lbf (46 J)	20 ft•lbf

CONFORMANCES AND APPROVALS:

• AWS Spec A5.1, Class E6010 • ASME SFA5.1, F-3, A-1, Class E6010

ABS

*The information contained or otherwise referenced herein is presented only as "typical" without guarantee or warranty, and McKay expressly disclaims any liability incurred from any reliance thereon. Typical data are obtained when welded and tested in accordance with AWS A5.1 specification. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by McKay.

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RECOMMENDED WELDING PROCEDURES:

Electrode positive, work negative (DCEP)
Average length (1/8" to 1/4")
Stay ahead of puddle and use slight whipping motion
Slight whipping or weaving technique
Use higher amperage and faster travel, staying ahead of puddle
Use similar technique as for vertical-up; multi-pass for build-up
Use downhill travel
Dry at room temperature
Not recommended

RECOMMENDED OPERATING PARAMETERS:

Diamet Inches	ER MM	TYPE OF POWER	Minimum Amps	Optimum* Amps	Maximum Amps	
3/32	2.4	DCEP	40	60	70	
1/8	3.2	DCEP	65	100	130	
5/32	4.0	DCEP	90	140	175	
3/16	4.8	DCEP	140	170	225	

*For out of position welding, reduce amperages shown by 15%.

TYPICAL DEPOSITION DATA (AT OPTIMUM):

DIAMETER INCHES	र MM	TYPE OF POWER	Amps	Volts	DEPOSITION RATE LBS/HR	DEPOSITION EFFICIENCY*%
3/32	2.4	DCEP	60	26-29	1.30	53
1/8	3.2	DCEP	110	26-27	1.60	54
5/32	4.0	DCEP	140	26-28	1.90	55
3/16	4.8	DCEP	180	26-28	2.60	54

*Allowance made for 2" stub loss included.

AVAILABLE DIAMETERS AND PACKAGES:

DIAMETER		LEI	NGTH	50-LB.	
INCHES	MM	INCHES	MM	CAN	
3/32	2.4	14	355	S116532-Z35	
1/8	3.2	14	355	S116544Z35	
5/32	4.0	14	355	S116551-Z35	
3/16	4.8	14	355	S116558-Z35	

Material Safety Data Sheets on any McKay product may be obtained from McKay Customer Service.

Because McKay is constantly improving products, McKay reserves the right to change design and/or specifications without notice.