

E7018 Welding Electrode

This welding electrode is designed for welding ordinary low alloy steel. It exhibits high efficiency and is suitable for all welding positions using DC and AC.



ADDITIONAL IMAGES



Product Overview

High-Efficiency Welding Electrode

This low-hydrogen welding electrode is formulated with iron powder, designed specifically for welding ordinary low alloy steel. It offers high operational efficiency with a melting rate of approximately 110%, ensuring consistent and reliable performance. The deposited metal provides excellent plasticity, toughness, and crack resistance, making it suitable for critical structural applications including ships and bridges.

Technical Specifications

WELDING ELECTRODE

MT-48 CORRESPONDENCE TO AWS E7018

LOW HYDROGEN ELECTRODE FOR WELDING HIGH TENSILE STEEL

Description:
This electrode is designed for welding ordinary low alloy steel. It offers high operational efficiency with a melting rate of approximately 110%, ensuring consistent and reliable performance. The deposited metal provides excellent plasticity, toughness, and crack resistance, making it suitable for critical structural applications including ships and bridges.

Applications:
This electrode is suitable for welding ordinary low alloy steel.

Chemical Composition of Weld Metal (%)					
	C	Mn	P	S	Si
Weld Metal	0.05	0.05	0.005	0.005	0.005
Weld Metal	0.05	0.05	0.005	0.005	0.005

Mechanical Properties of Weld Metal

	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Charpy Impact Energy (J)	Hardness (HV)
Weld Metal	420	560	22	270	180
Weld Metal	420	560	22	270	180

Welding conditions should be based on the temperature of 350°C for one hour before welding.
Packaging in accordance with ISO 9001, ISO 14001, ISO 45001, ISO 9000, ISO 9002, ISO 9004, ISO 9005, ISO 9006, ISO 9007, ISO 9008, ISO 9009, ISO 9010, ISO 9011, ISO 9012, ISO 9013, ISO 9014, ISO 9015, ISO 9016, ISO 9017, ISO 9018, ISO 9019, ISO 9020, ISO 9021, ISO 9022, ISO 9023, ISO 9024, ISO 9025, ISO 9026, ISO 9027, ISO 9028, ISO 9029, ISO 9030, ISO 9031, ISO 9032, ISO 9033, ISO 9034, ISO 9035, ISO 9036, ISO 9037, ISO 9038, ISO 9039, ISO 9040, ISO 9041, ISO 9042, ISO 9043, ISO 9044, ISO 9045, ISO 9046, ISO 9047, ISO 9048, ISO 9049, ISO 9050, ISO 9051, ISO 9052, ISO 9053, ISO 9054, ISO 9055, ISO 9056, ISO 9057, ISO 9058, ISO 9059, ISO 9060, ISO 9061, ISO 9062, ISO 9063, ISO 9064, ISO 9065, ISO 9066, ISO 9067, ISO 9068, ISO 9069, ISO 9070, ISO 9071, ISO 9072, ISO 9073, ISO 9074, ISO 9075, ISO 9076, ISO 9077, ISO 9078, ISO 9079, ISO 9080, ISO 9081, ISO 9082, ISO 9083, ISO 9084, ISO 9085, ISO 9086, ISO 9087, ISO 9088, ISO 9089, ISO 9090, ISO 9091, ISO 9092, ISO 9093, ISO 9094, ISO 9095, ISO 9096, ISO 9097, ISO 9098, ISO 9099, ISO 9100, ISO 9101, ISO 9102, ISO 9103, ISO 9104, ISO 9105, ISO 9106, ISO 9107, ISO 9108, ISO 9109, ISO 9110, ISO 9111, ISO 9112, ISO 9113, ISO 9114, ISO 9115, ISO 9116, ISO 9117, ISO 9118, ISO 9119, ISO 9120, ISO 9121, ISO 9122, ISO 9123, ISO 9124, ISO 9125, ISO 9126, ISO 9127, ISO 9128, ISO 9129, ISO 9130, ISO 9131, ISO 9132, ISO 9133, ISO 9134, ISO 9135, ISO 9136, ISO 9137, ISO 9138, ISO 9139, ISO 9140, ISO 9141, ISO 9142, ISO 9143, ISO 9144, ISO 9145, ISO 9146, ISO 9147, ISO 9148, ISO 9149, ISO 9150, ISO 9151, ISO 9152, ISO 9153, ISO 9154, ISO 9155, ISO 9156, ISO 9157, ISO 9158, ISO 9159, ISO 9160, ISO 9161, ISO 9162, ISO 9163, ISO 9164, ISO 9165, ISO 9166, ISO 9167, ISO 9168, ISO 9169, ISO 9170, ISO 9171, ISO 9172, ISO 9173, ISO 9174, ISO 9175, ISO 9176, ISO 9177, ISO 9178, ISO 9179, ISO 9180, ISO 9181, ISO 9182, ISO 9183, ISO 9184, ISO 9185, ISO 9186, ISO 9187, ISO 9188, ISO 9189, ISO 9190, ISO 9191, ISO 9192, ISO 9193, ISO 9194, ISO 9195, ISO 9196, ISO 9197, ISO 9198, ISO 9199, ISO 9200, ISO 9201, ISO 9202, ISO 9203, ISO 9204, ISO 9205, ISO 9206, ISO 9207, ISO 9208, ISO 9209, ISO 9210, ISO 9211, ISO 9212, ISO 9213, ISO 9214, ISO 9215, ISO 9216, ISO 9217, ISO 9218, ISO 9219, ISO 9220, ISO 9221, ISO 9222, ISO 9223, ISO 9224, ISO 9225, ISO 9226, ISO 9227, ISO 9228, ISO 9229, ISO 9230, ISO 9231, ISO 9232, ISO 9233, ISO 9234, ISO 9235, ISO 9236, ISO 9237, ISO 9238, ISO 9239, ISO 9240, ISO 9241, ISO 9242, ISO 9243, ISO 9244, ISO 9245, ISO 9246, ISO 9247, ISO 9248, ISO 9249, ISO 9250, ISO 9251, ISO 9252, ISO 9253, ISO 9254, ISO 9255, ISO 9256, ISO 9257, ISO 9258, ISO 9259, ISO 9260, ISO 9261, ISO 9262, ISO 9263, ISO 9264, ISO 9265, ISO 9266, ISO 9267, ISO 9268, ISO 9269, ISO 9270, ISO 9271, ISO 9272, ISO 9273, ISO 9274, ISO 9275, ISO 9276, ISO 9277, ISO 9278, ISO 9279, ISO 9280, ISO 9281, ISO 9282, ISO 9283, ISO 9284, ISO 9285, ISO 9286, ISO 9287, ISO 9288, ISO 9289, ISO 9290, ISO 9291, ISO 9292, ISO 9293, ISO 9294, ISO 9295, ISO 9296, ISO 9297, ISO 9298, ISO 9299, ISO 9300, ISO 9301, ISO 9302, ISO 9303, ISO 9304, ISO 9305, ISO 9306, ISO 9307, ISO 9308, ISO 9309, ISO 9310, ISO 9311, ISO 9312, ISO 9313, ISO 9314, ISO 9315, ISO 9316, ISO 9317, ISO 9318, ISO 9319, ISO 9320, ISO 9321, ISO 9322, ISO 9323, ISO 9324, ISO 9325, ISO 9326, ISO 9327, ISO 9328, ISO 9329, ISO 9330, ISO 9331, ISO 9332, ISO 9333, ISO 9334, ISO 9335, ISO 9336, ISO 9337, ISO 9338, ISO 9339, ISO 9340, ISO 9341, ISO 9342, ISO 9343, ISO 9344, ISO 9345, ISO 9346, ISO 9347, ISO 9348, ISO 9349, ISO 9350, ISO 9351, ISO 9352, ISO 9353, ISO 9354, ISO 9355, ISO 9356, ISO 9357, ISO 9358, ISO 9359, ISO 9360, ISO 9361, ISO 9362, ISO 9363, ISO 9364, ISO 9365, ISO 9366, ISO 9367, ISO 9368, ISO 9369, ISO 9370, ISO 9371, ISO 9372, ISO 9373, ISO 9374, ISO 9375, ISO 9376, ISO 9377, ISO 9378, ISO 9379, ISO 9380, ISO 9381, ISO 9382, ISO 9383, ISO 9384, ISO 9385, ISO 9386, ISO 9387, ISO 9388, ISO 9389, ISO 9390, ISO 9391, ISO 9392, ISO 9393, ISO 9394, ISO 9395, ISO 9396, ISO 9397, ISO 9398, ISO 9399, ISO 9400, ISO 9401, ISO 9402, ISO 9403, ISO 9404, ISO 9405, ISO 9406, ISO 9407, ISO 9408, ISO 9409, ISO 9410, ISO 9411, ISO 9412, ISO 9413, ISO 9414, ISO 9415, ISO 9416, ISO 9417, ISO 9418, ISO 9419, ISO 9420, ISO 9421, ISO 9422, ISO 9423, ISO 9424, ISO 9425, ISO 9426, ISO 9427, ISO 9428, ISO 9429, ISO 9430, ISO 9431, ISO 9432, ISO 9433, ISO 9434, ISO 9435, ISO 9436, ISO 9437, ISO 9438, ISO 9439, ISO 9440, ISO 9441, ISO 9442, ISO 9443, ISO 9444, ISO 9445, ISO 9446, ISO 9447, ISO 9448, ISO 9449, ISO 9450, ISO 9451, ISO 9452, ISO 9453, ISO 9454, ISO 9455, ISO 9456, ISO 9457, ISO 9458, ISO 9459, ISO 9460, ISO 9461, ISO 9462, ISO 9463, ISO 9464, ISO 9465, ISO 9466, ISO 9467, ISO 9468, ISO 9469, ISO 9470, ISO 9471, ISO 9472, ISO 9473, ISO 9474, ISO 9475, ISO 9476, ISO 9477, ISO 9478, ISO 9479, ISO 9480, ISO 9481, ISO 9482, ISO 9483, ISO 9484, ISO 9485, ISO 9486, ISO 9487, ISO 9488, ISO 9489, ISO 9490, ISO 9491, ISO 9492, ISO 9493, ISO 9494, ISO 9495, ISO 9496, ISO 9497, ISO 9498, ISO 9499, ISO 9500, ISO 9501, ISO 9502, ISO 9503, ISO 9504, ISO 9505, ISO 9506, ISO 9507, ISO 9508, ISO 9509, ISO 9510, ISO 9511, ISO 9512, ISO 9513, ISO 9514, ISO 9515, ISO 9516, ISO 9517, ISO 9518, ISO 9519, ISO 9520, ISO 9521, ISO 9522, ISO 9523, ISO 9524, ISO 9525, ISO 9526, ISO 9527, ISO 9528, ISO 9529, ISO 9530, ISO 9531, ISO 9532, ISO 9533, ISO 9534, ISO 9535, ISO 9536, ISO 9537, ISO 9538, ISO 9539, ISO 9540, ISO 9541, ISO 9542, ISO 9543, ISO 9544, ISO 9545, ISO 9546, ISO 9547, ISO 9548, ISO 9549, ISO 9550, ISO 9551, ISO 9552, ISO 9553, ISO 9554, ISO 9555, ISO 9556, ISO 9557, ISO 9558, ISO 9559, ISO 9560, ISO 9561, ISO 9562, ISO 9563, ISO 9564, ISO 9565, ISO 9566, ISO 9567, ISO 9568, ISO 9569, ISO 9570, ISO 9571, ISO 9572, ISO 9573, ISO 9574, ISO 9575, ISO 9576, ISO 9577, ISO 9578, ISO 9579, ISO 9580, ISO 9581, ISO 9582, ISO 9583, ISO 9584, ISO 9585, ISO 9586, ISO 9587, ISO 9588, ISO 9589, ISO 9590, ISO 9591, ISO 9592, ISO 9593, ISO 9594, ISO 9595, ISO 9596, ISO 9597, ISO 9598, ISO 9599, ISO 9600, ISO 9601, ISO 9602, ISO 9603, ISO 9604, ISO 9605, ISO 9606, ISO 9607, ISO 9608, ISO 9609, ISO 9610, ISO 9611, ISO 9612, ISO 9613, ISO 9614, ISO 9615, ISO 9616, ISO 9617, ISO 9618, ISO 9619, ISO 9620, ISO 9621, ISO 9622, ISO 9623, ISO 9624, ISO 9625, ISO 9626, ISO 9627, ISO 9628, ISO 9629, ISO 9630, ISO 9631, ISO 9632, ISO 9633, ISO 9634, ISO 9635, ISO 9636, ISO 9637, ISO 9638, ISO 9639, ISO 9640, ISO 9641, ISO 9642, ISO 9643, ISO 9644, ISO 9645, ISO 9646, ISO 9647, ISO 9648, ISO 9649, ISO 9650, ISO 9651, ISO 9652, ISO 9653, ISO 9654, ISO 9655, ISO 9656, ISO 9657, ISO 9658, ISO 9659, ISO 9660, ISO 9661, ISO 9662, ISO 9663, ISO 9664, ISO 9665, ISO 9666, ISO 9667, ISO 9668, ISO 9669, ISO 9670, ISO 9671, ISO 9672, ISO 9673, ISO 9674, ISO 9675, ISO 9676, ISO 9677, ISO 9678, ISO 9679, ISO 9680, ISO 9681, ISO 9682, ISO 9683, ISO 9684, ISO 9685, ISO 9686, ISO 9687, ISO 9688, ISO 9689, ISO 9690, ISO 9691, ISO 9692, ISO 9693, ISO 9694, ISO 9695, ISO 9696, ISO 9697, ISO 9698, ISO 9699, ISO 9700, ISO 9701, ISO 9702, ISO 9703, ISO 9704, ISO 9705, ISO 9706, ISO 9707, ISO 9708, ISO 9709, ISO 9710, ISO 9711, ISO 9712, ISO 9713, ISO 9714, ISO 9715, ISO 9716, ISO 9717, ISO 9718, ISO 9719, ISO 9720, ISO 9721, ISO 9722, ISO 9723, ISO 9724, ISO 9725, ISO 9726, ISO 9727, ISO 9728, ISO 9729, ISO 9730, ISO 9731, ISO 9732, ISO 9733, ISO 9734, ISO 9735, ISO 9736, ISO 9737, ISO 9738, ISO 9739, ISO 9740, ISO 9741, ISO 9742, ISO 9743, ISO 9744, ISO 9745, ISO 9746, ISO 9747, ISO 9748, ISO 9749, ISO 9750, ISO 9751, ISO 9752, ISO 9753, ISO 9754, ISO 9755, ISO 9756, ISO 9757, ISO 9758, ISO 9759, ISO 9760, ISO 9761, ISO 9762, ISO 9763, ISO 9764, ISO 9765, ISO 9766, ISO 9767, ISO 9768, ISO 9769, ISO 9770, ISO 9771, ISO 9772, ISO 9773, ISO 9774, ISO 9775, ISO 9776, ISO 9777, ISO 9778, ISO 9779, ISO 9780, ISO 9781, ISO 9782, ISO 9783, ISO 9784, ISO 9785, ISO 9786, ISO 9787, ISO 9788, ISO 9789, ISO 9790, ISO 9791, ISO 9792, ISO 9793, ISO 9794, ISO 9795, ISO 9796, ISO 9797, ISO 9798, ISO 9799, ISO 9800, ISO 9801, ISO 9802, ISO 9803, ISO 9804, ISO 9805, ISO 9806, ISO 9807, ISO 9808, ISO 9809, ISO 9810, ISO 9811, ISO 9812, ISO 9813, ISO 9814, ISO 9815, ISO 9816, ISO 9817, ISO 9818, ISO 9819, ISO 9820, ISO 9821, ISO 9822, ISO 9823, ISO 9824, ISO 9825, ISO 9826, ISO 9827, ISO 9828, ISO 9829, ISO 9830, ISO 9831, ISO 9832, ISO 9833, ISO 9834, ISO 9835, ISO 9836, ISO 9837, ISO 9838, ISO 9839, ISO 9840, ISO 9841, ISO 9842, ISO 9843, ISO 9844, ISO 9845, ISO 9846, ISO 9847, ISO 9848, ISO 9849, ISO 9850, ISO 9851, ISO 9852, ISO 9853, ISO 9854, ISO 9855, ISO 9856, ISO 9857, ISO 9858, ISO 9859, ISO 9860, ISO 9861, ISO 9862, ISO 9863, ISO 9864, ISO 9865, ISO 9866, ISO 9867, ISO 9868, ISO 9869, ISO 9870, ISO 9871, ISO 9872, ISO 9873, ISO 9874, ISO 9875, ISO 9876, ISO 9877, ISO 9878, ISO 9879, ISO 9880, ISO 9881, ISO 9882, ISO 9883, ISO 9884, ISO 9885, ISO 9886, ISO 9887, ISO 9888, ISO 9889, ISO 9890, ISO 9891, ISO 9892, ISO 9893, ISO 9894, ISO 9895, ISO 9896, ISO 9897, ISO 9898, ISO 9899, ISO 9900, ISO 9901, ISO 9902, ISO 9903, ISO 9904, ISO 9905, ISO 9906, ISO 9907, ISO 9908, ISO 9909, ISO 9910, ISO 9911, ISO 9912, ISO 9913, ISO 9914, ISO 9915, ISO 9916, ISO 9917, ISO 9918, ISO 9919, ISO 9920, ISO 9921, ISO 9922, ISO 9923, ISO 9924, ISO 9925, ISO 9926, ISO 9927, ISO 9928, ISO 9929, ISO 9930, ISO 9931, ISO 9932, ISO 9933, ISO 9934, ISO 9935, ISO 9936, ISO 9937, ISO 9938, ISO 9939, ISO 9940, ISO 9941, ISO 9942, ISO 9943, ISO 9944, ISO 9945, ISO 9946, ISO 9947, ISO 9948, ISO 9949, ISO 9950, ISO 9951, ISO 9952, ISO 9953, ISO 9954, ISO 9955, ISO 9956, ISO 9957, ISO 9958, ISO 9959, ISO 9960, ISO 9961, ISO 9962, ISO 9963, ISO 9964, ISO 9965, ISO 9966, ISO 9967, ISO 9968, ISO 9969, ISO 9970, ISO 9971, ISO 9972, ISO 9973, ISO 9974, ISO 9975, ISO 9976, ISO 9977, ISO 9978, ISO 9979, ISO 9980, ISO 9981, ISO 9982, ISO 9983, ISO 9984, ISO 9985, ISO 9986, ISO 9987, ISO 9988, ISO 9989, ISO 9990, ISO 9991, ISO 9992, ISO 9993, ISO 9994, ISO 9995, ISO 9996, ISO 9997, ISO 9998, ISO 9999, ISO 10000.

Technical specifications and performance data for the E7018 welding electrode.

Welding Positions	All Positions
Current Type	DC, AC (Open circuit voltage e70V)
Melting Rate	110 %
Baking Requirements	350°C for 1 hour before use

Chemical Composition

Chemical Composition of Weld Metal (%)

Element	Standard Max (%)	Typical (%)
Carbon (C)	d0.15	0.08
Manganese (Mn)	d1.60	1
Silicon (Si)	d0.75	0.5
Sulfur (S)	d0.035	0.014
Phosphorus (P)	d0.035	0.02

Mechanical Properties

Mechanical Properties

Property	Standard	Typical
Yield Strength (MPa)	e400	480
Tensile Strength (MPa)	e490	570
Elongation (%)	>22	30
Charpy V Impact (-30)	e27	127J
Bend Test (Degree)	N.S.	180

Logistics & Packaging

Packaging Details

- 20kg net carton weight
- 8 boxes x 2.5kg (for 2.5mm electrodes)
- 4 boxes x 5kg (for other sizes)
- Pallet options available upon request

Certifications

Industry Approvals

ABS • BV • DNV • GL • LR • NK