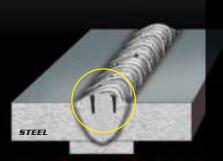
Weld Discontinuities

POROSITY



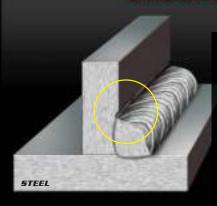
Possible Causes

Long Arc Length Dirty Base Metal Inadequate Gas Coverage

Possible Cures

Use Proper Arc Length Clean Base Metal **Check for Proper Gas Coverage**

UNDERCUT



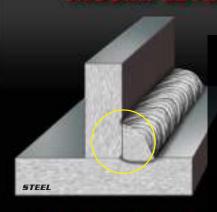
Possible Cause

Improper Welding Technique

Possible Cures

Reduce Arc Lenath **Reduce Travel Speed Use Proper Electrode Angle**

INCOMPLETE FUSION



Possible Causes

"Cold" Welding Procedures **Travel Speed Too Slow Travel Speed Too Fast**

Possible Cures

Increase Current Use Proper Travel Speed

INCOMPLETE JOINT PENETRATION

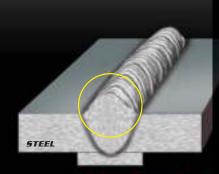
Possible Causes

"Cold" Welding Procedures **Travel Speed Too Slow Travel Speed Too Fast Improper Joint Detail**

Possible Cures

Increase Current Use Proper Travel Speed

EXCESSIVE REINFORCEMENT



Possible Causes

Travel Speed Too Slow "Cold" Welding Procedures

Possible Cures

Increase Travel Speed Increase Current

UNDERFILL

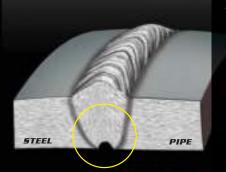


Possible Cause

Insufficient Weld Metal

Possible Cure **Reduce Travel Speed**

CONCAVE ROOT SURFACE



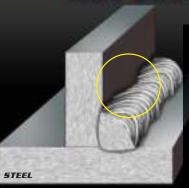
Possible Causes

Too Much Current Arc Length Too Long Root Face Too Small

Possible Cures

Reduce Current Maintain Proper Arc Length **Use Proper Joint Fitup**

NON-UNIFORMITY



STEEL

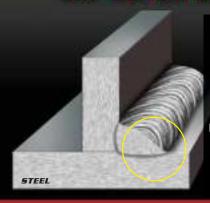
Possible Cause

Improper Welding Technique

Possible Cure

Maintain Constant Travel Speed

IMPROPER LEG SIZE



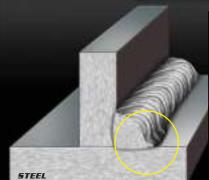
Possible Cause

Improper Electrode Angle

Possible Cure

Jse Correct Welding Technique

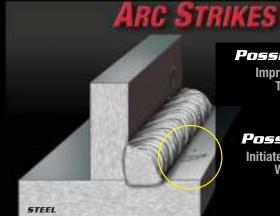
OVERLAP



STEEL

Possible Cause **Travel Speed Too Slow**

Possible Cure **Use Proper Travel Speed**



Possible Cause

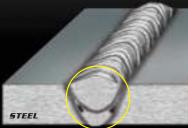
Improper Welding Technique

Possible Cure

Initiate Arc Inside the Weld Joint

SLAG INCLUSIONS

Possible Cause Improper Welding Technique



Possible Cures

Use Correct Welding Technique Clean Weld Between Passes



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