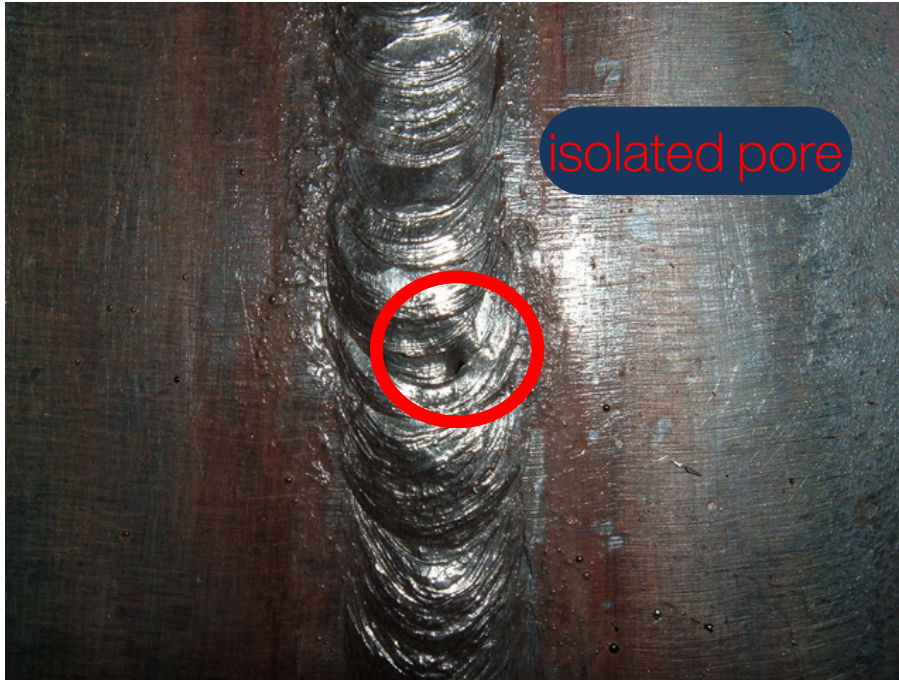
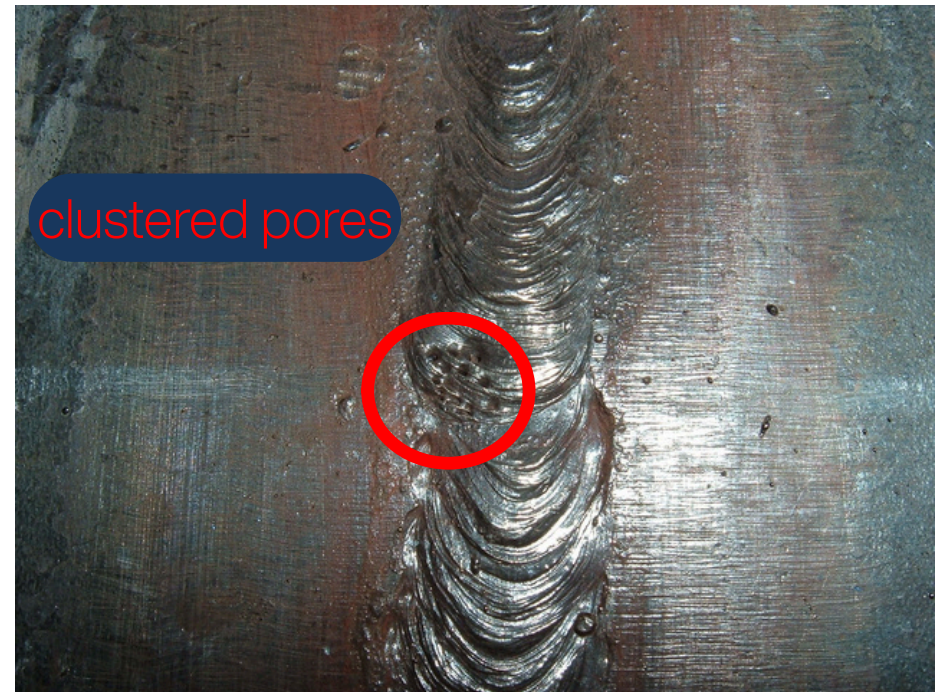


# 2017 - surface porosity



Causes of occurrence:

- Extended curve
- Excessive humidity within
- Inappropriate shielding gas



# 401 - cold junction

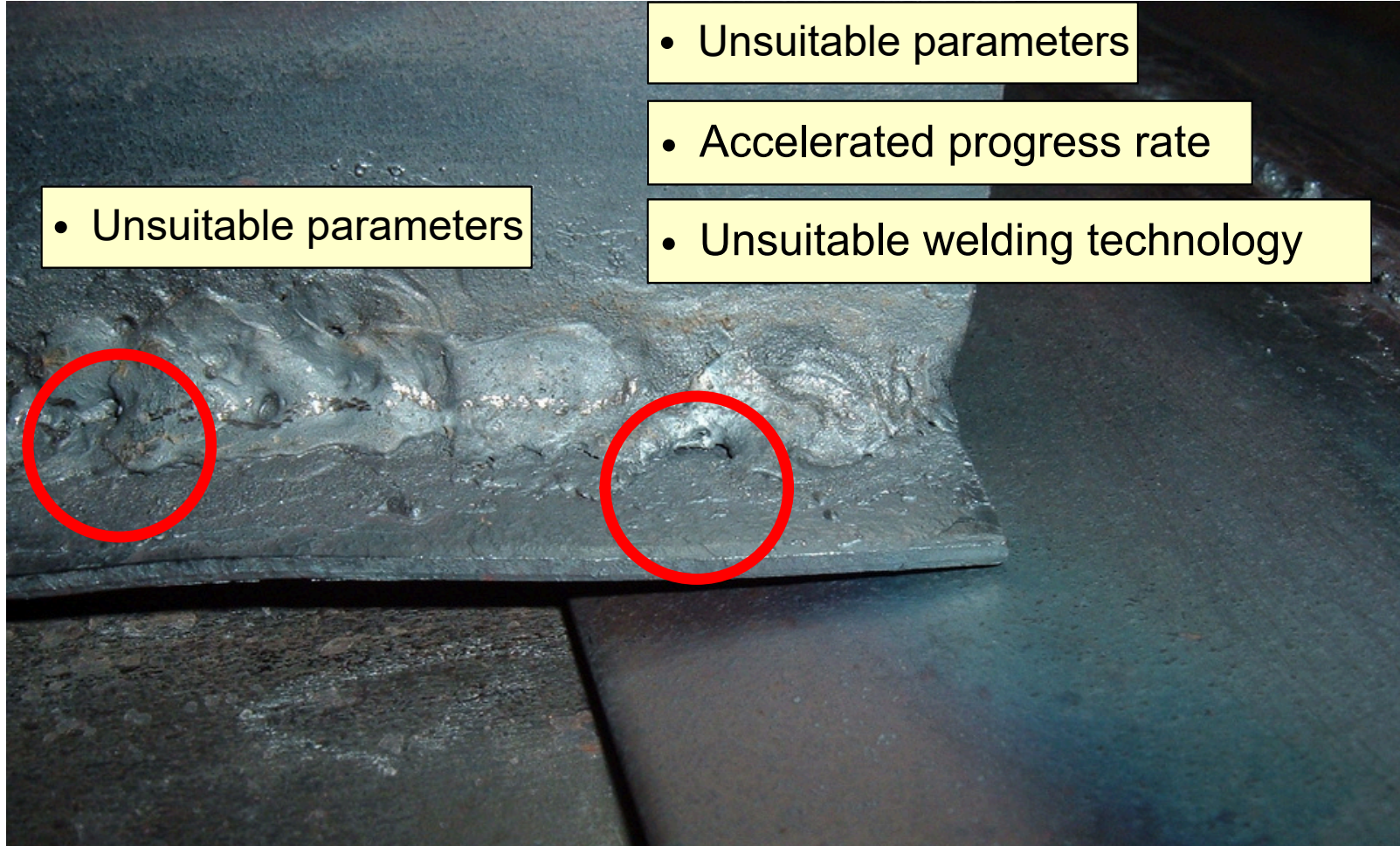
Causes of occurrence:

- Unsuitable parameters

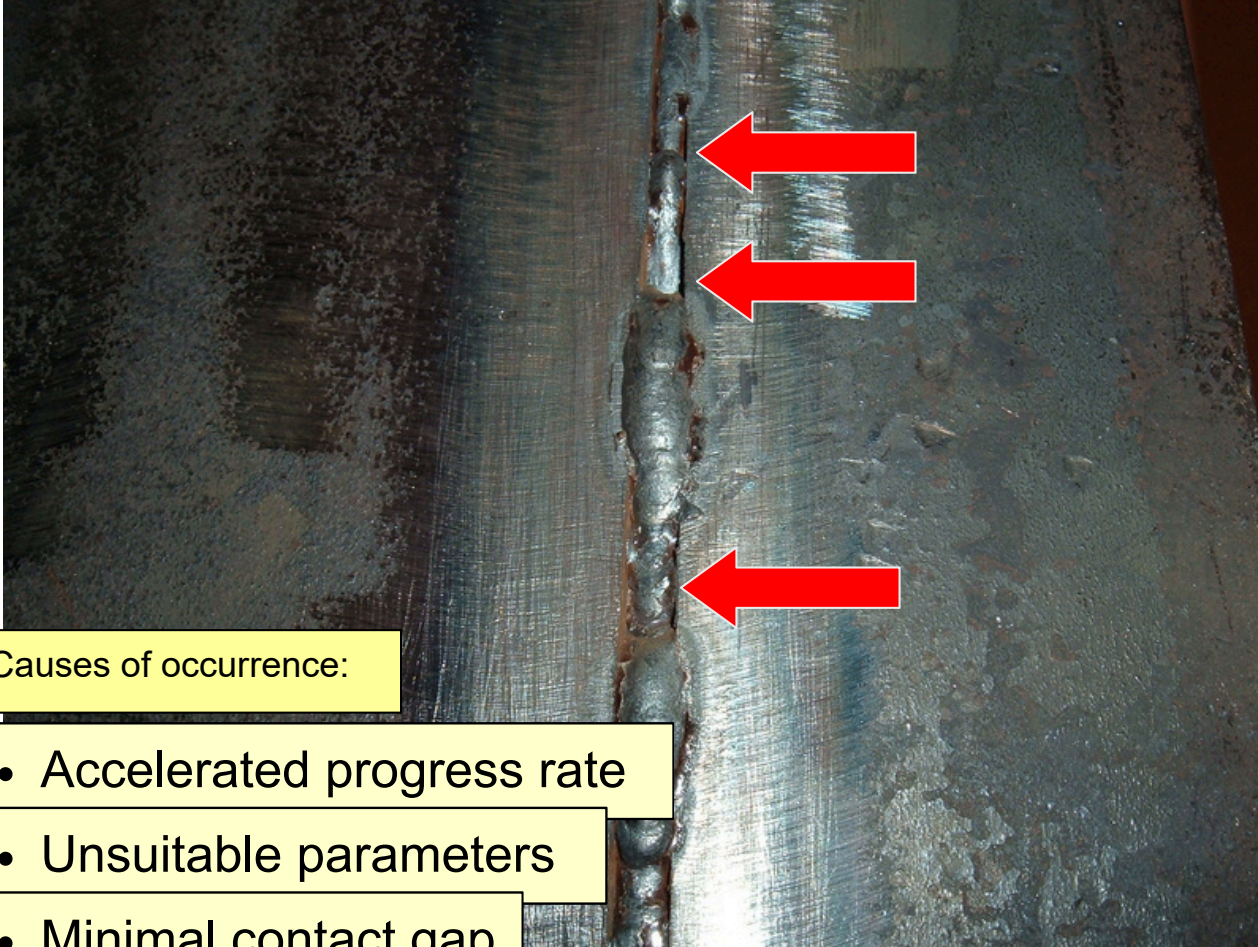
- Unsuitable parameters

- Accelerated progress rate

- Unsuitable welding technology

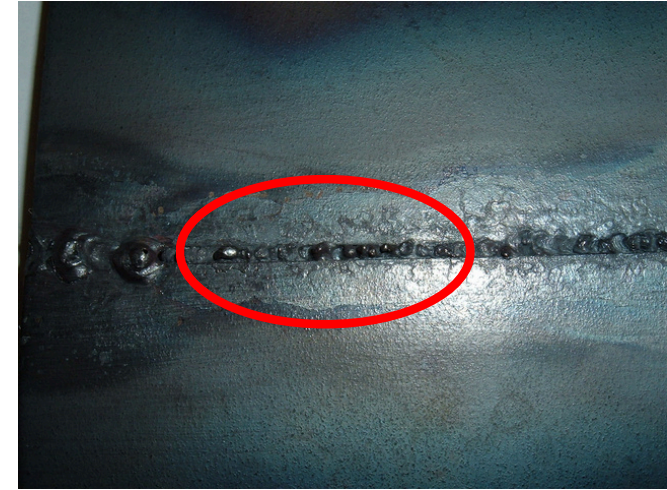


# 4021 - raw tuber



Causes of occurrence:

- Accelerated progress rate
- Unsuitable parameters
- Minimal contact gap
- Significant monotony at the foundation

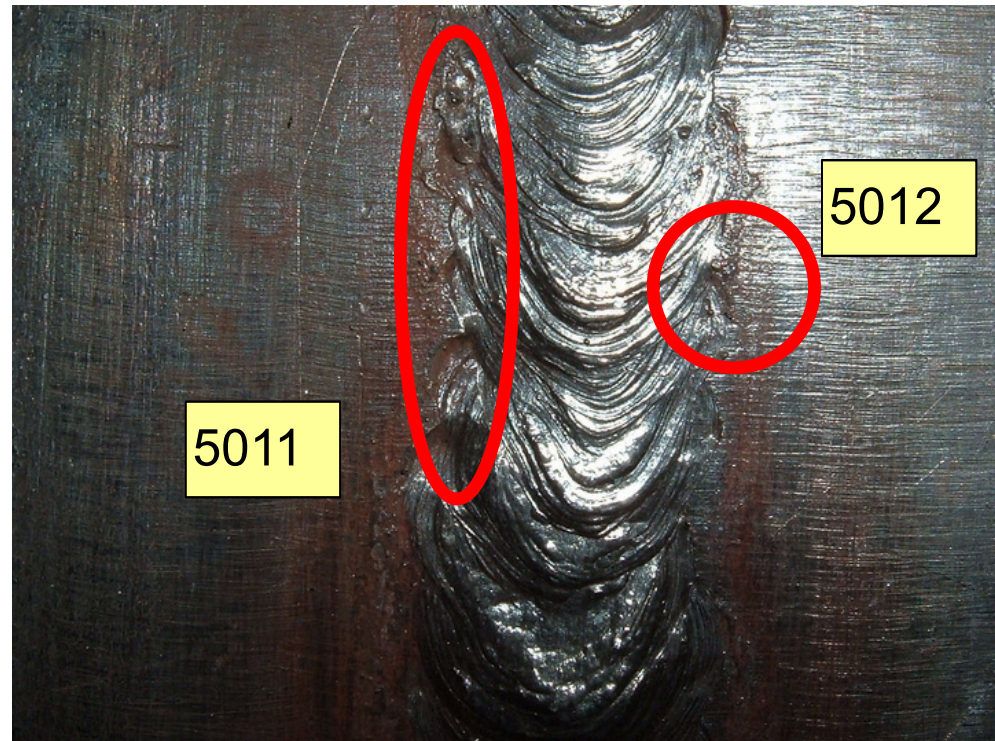


# 5011 - unwavering enthusiasm

## 5012 - disjointed enthusiasm



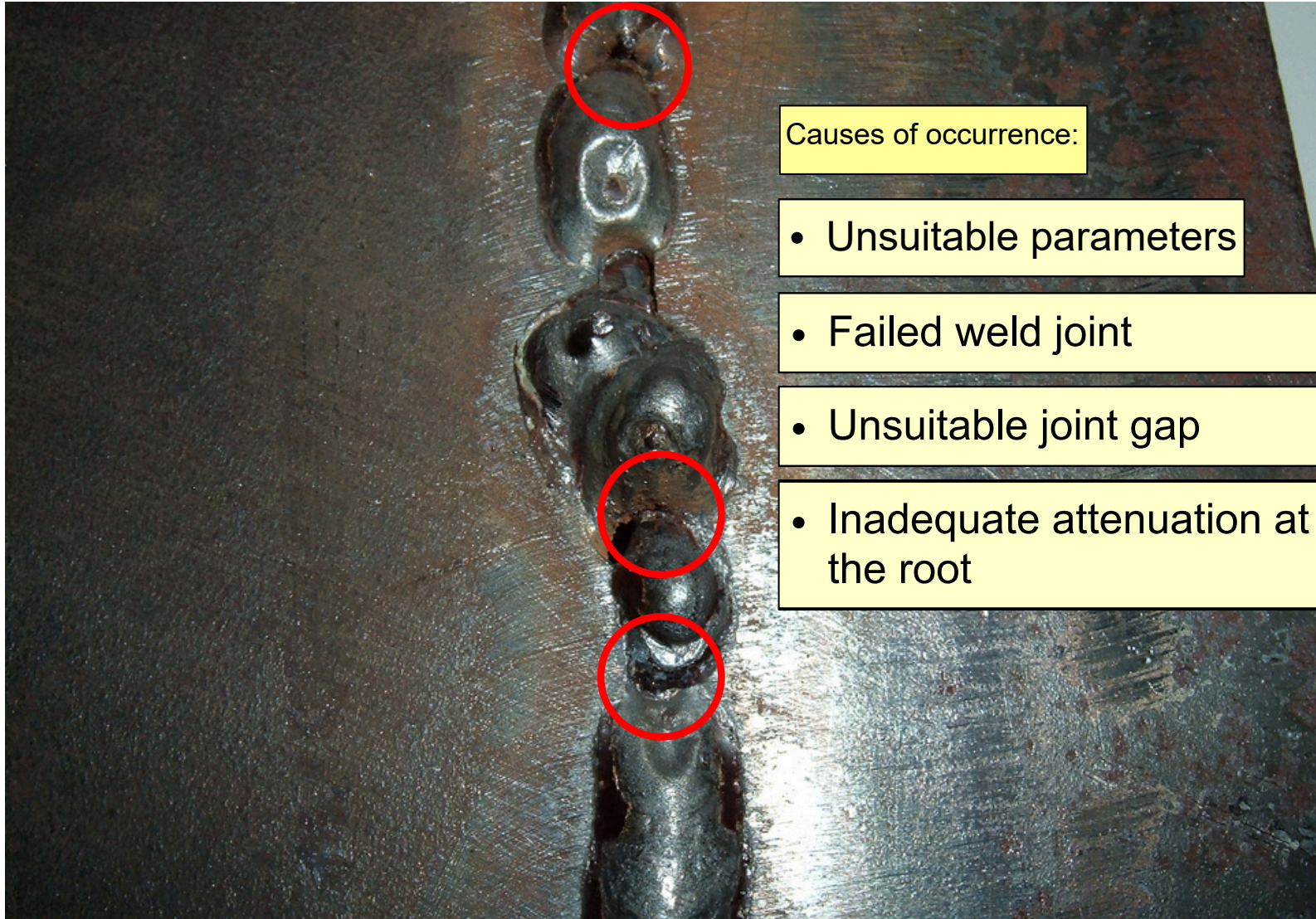
Causes of occurrence:  
Unsuitable parameters  
Elevated forward velocity  
Irregular torch movement



Causes of occurrence:

- Unsuitable parameters
- Incorrect torch angle

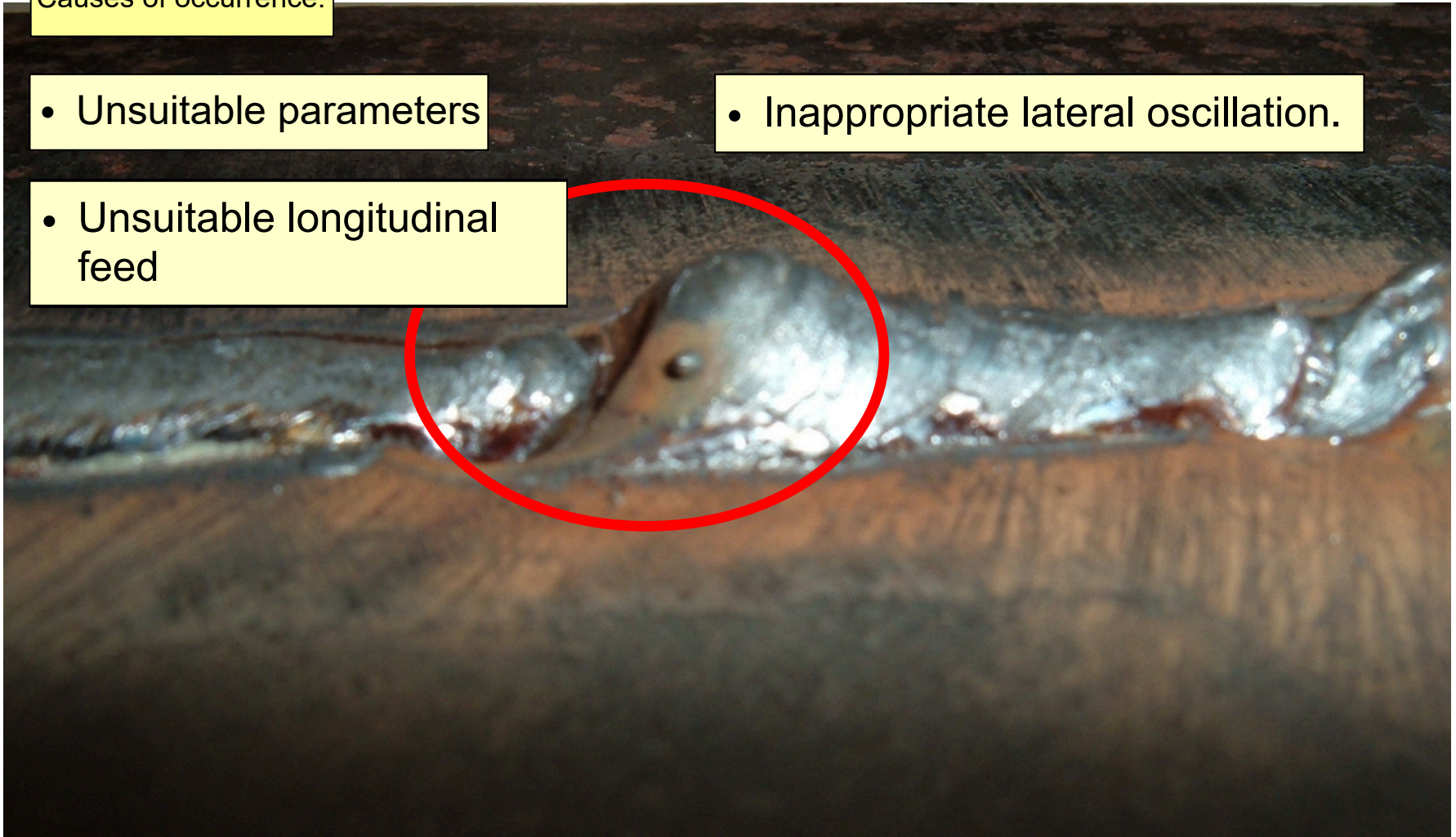
## 5013 - indentations in the weld root



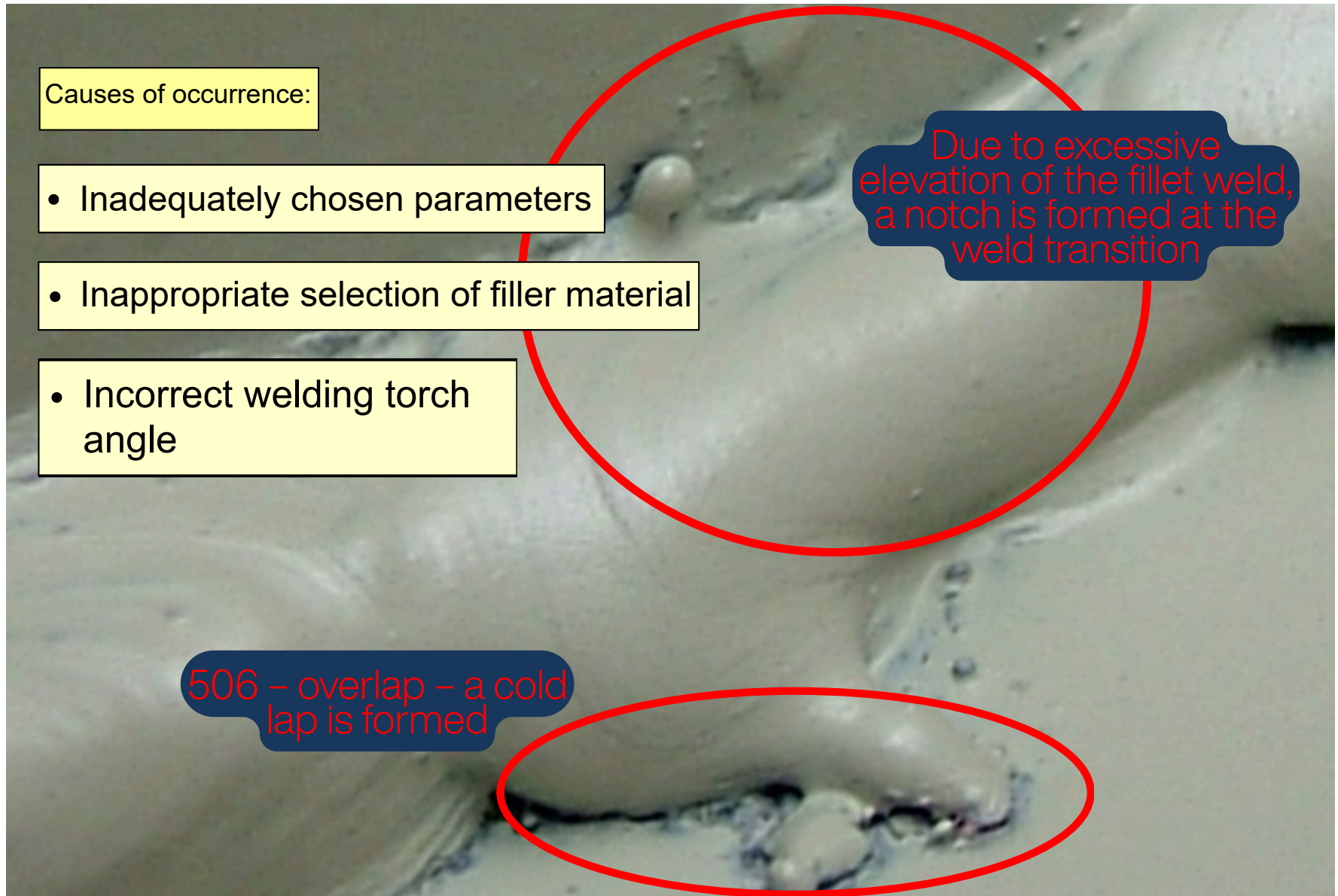
## 502 - excessive butt weld height

Causes of occurrence:

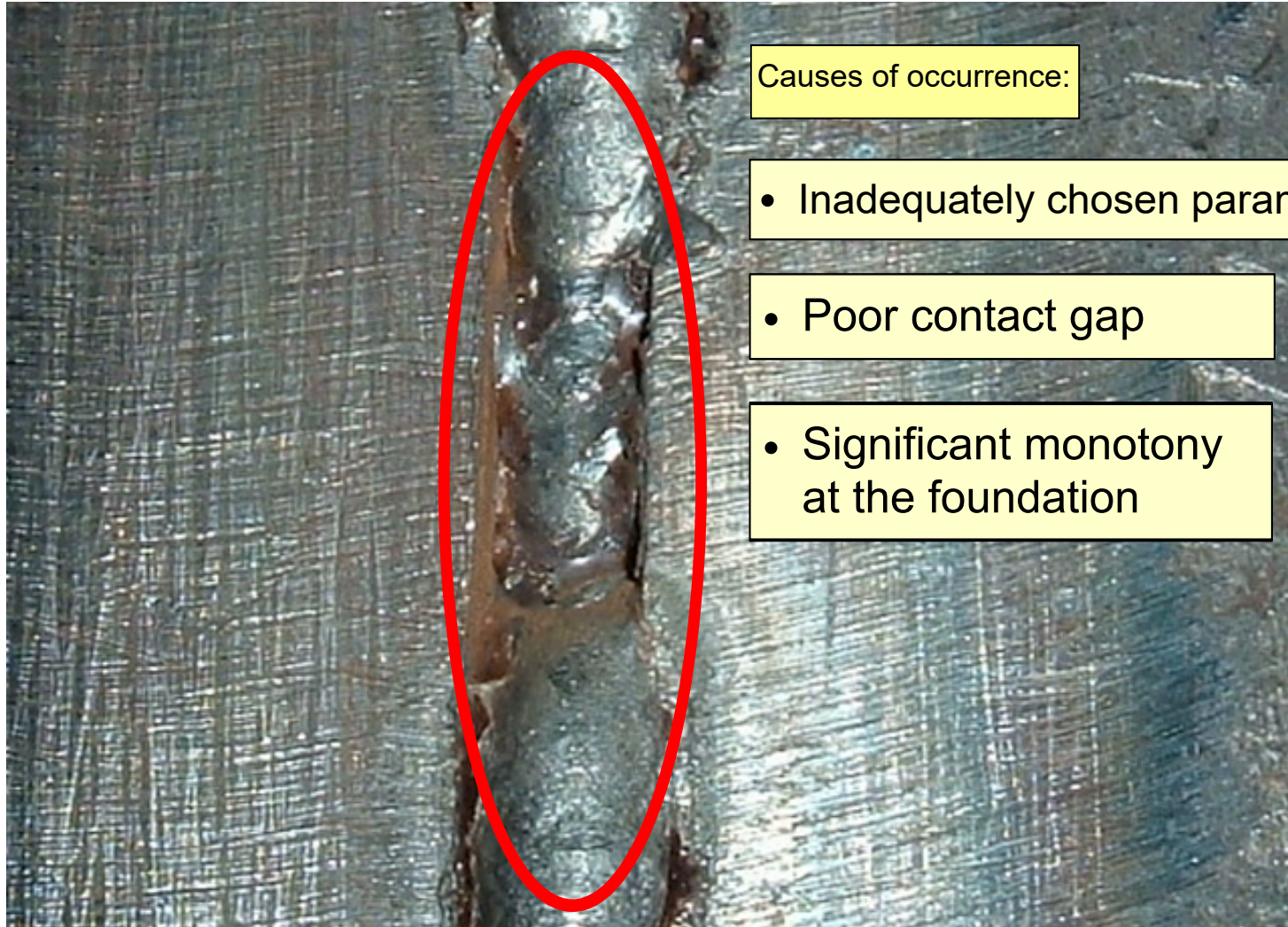
- Unsuitable parameters
- Unsuitable longitudinal feed
- Inappropriate lateral oscillation.



## 503 - excessive elevation of fillet welds



## 511 - insufficient weld fill



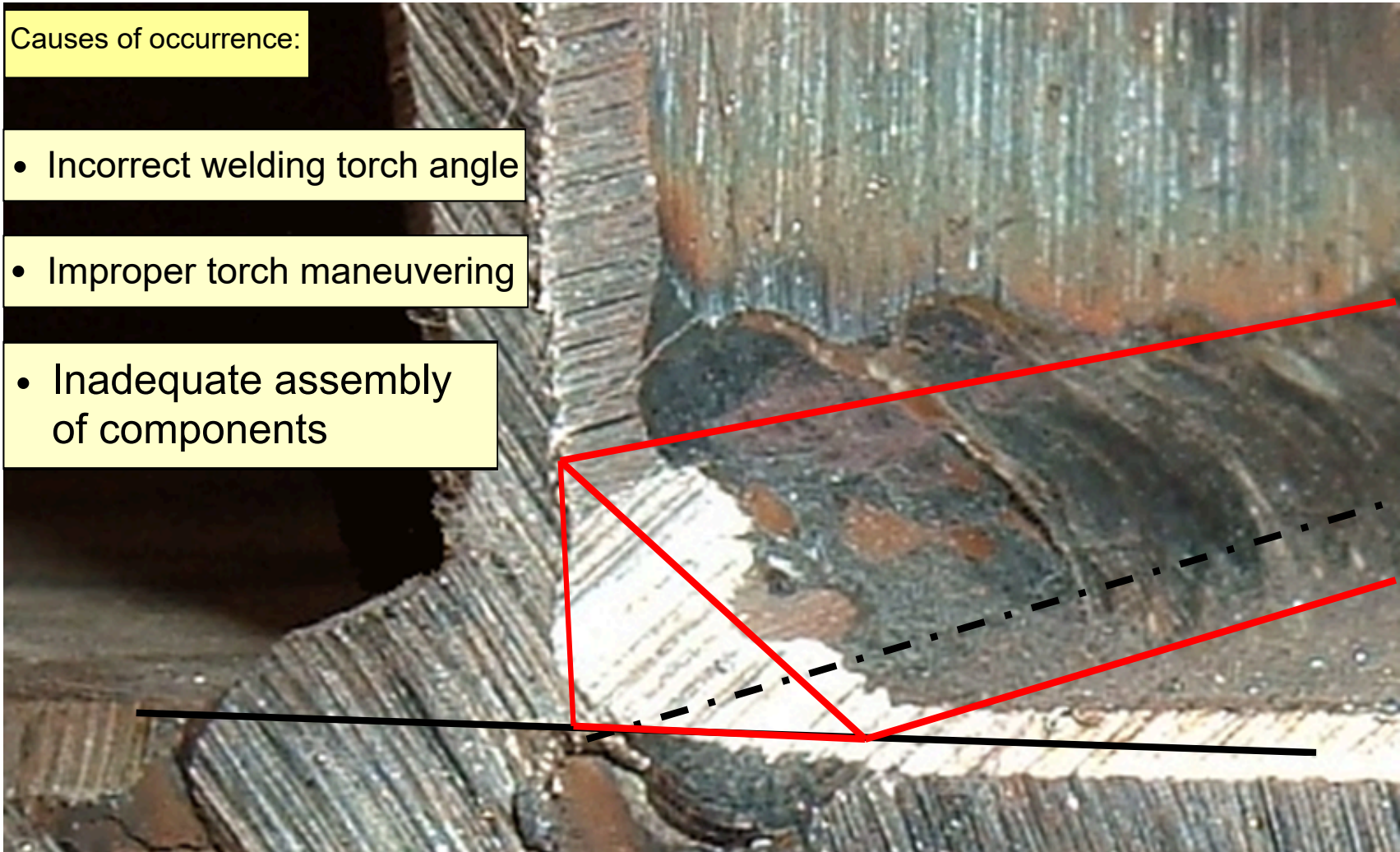
Causes of occurrence:

- Inadequately chosen parameters
- Poor contact gap
- Significant monotony at the foundation

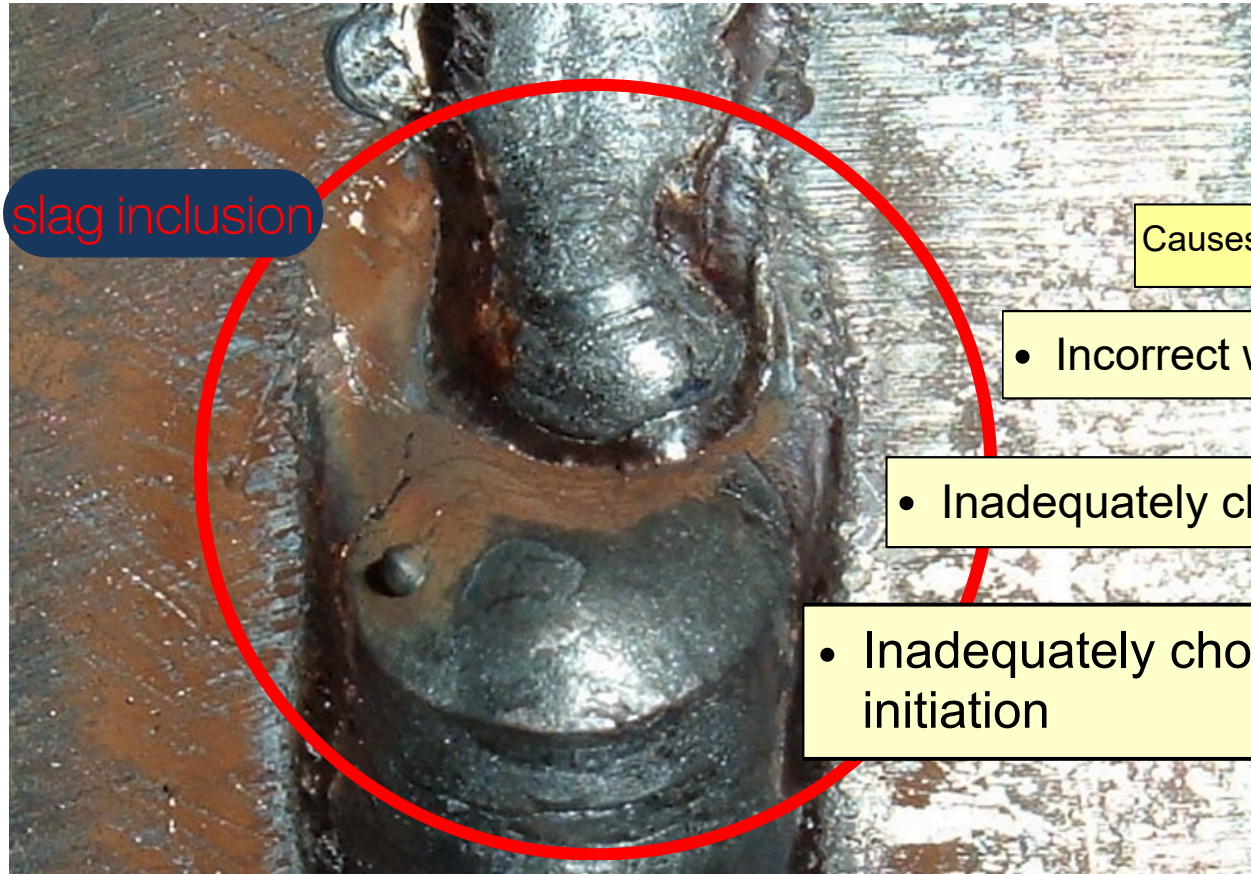
# 512 - pronounced asymmetry of the fillet weld

Causes of occurrence:

- Incorrect welding torch angle
- Improper torch maneuvering
- Inadequate assembly of components



# 517 - faulty weld connection



slag inclusion

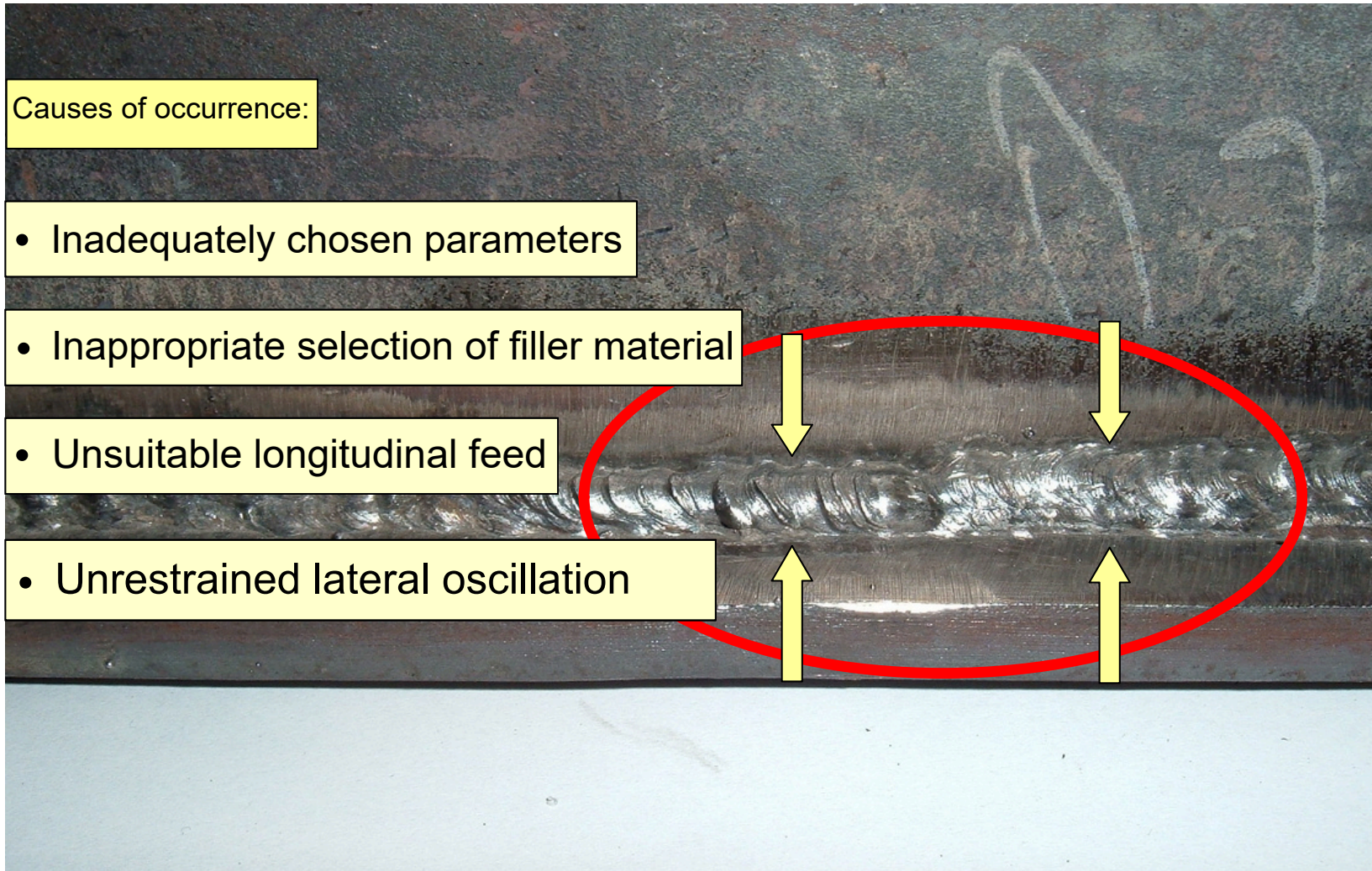
Causes of occurrence:

- Incorrect welding torch angle
- Inadequately chosen parameters
- Inadequately chosen weld initiation

# 5213 - deficiency in fillet weld dimensions

Causes of occurrence:

- Inadequately chosen parameters
- Inappropriate selection of filler material
- Unsuitable longitudinal feed
- Unrestrained lateral oscillation



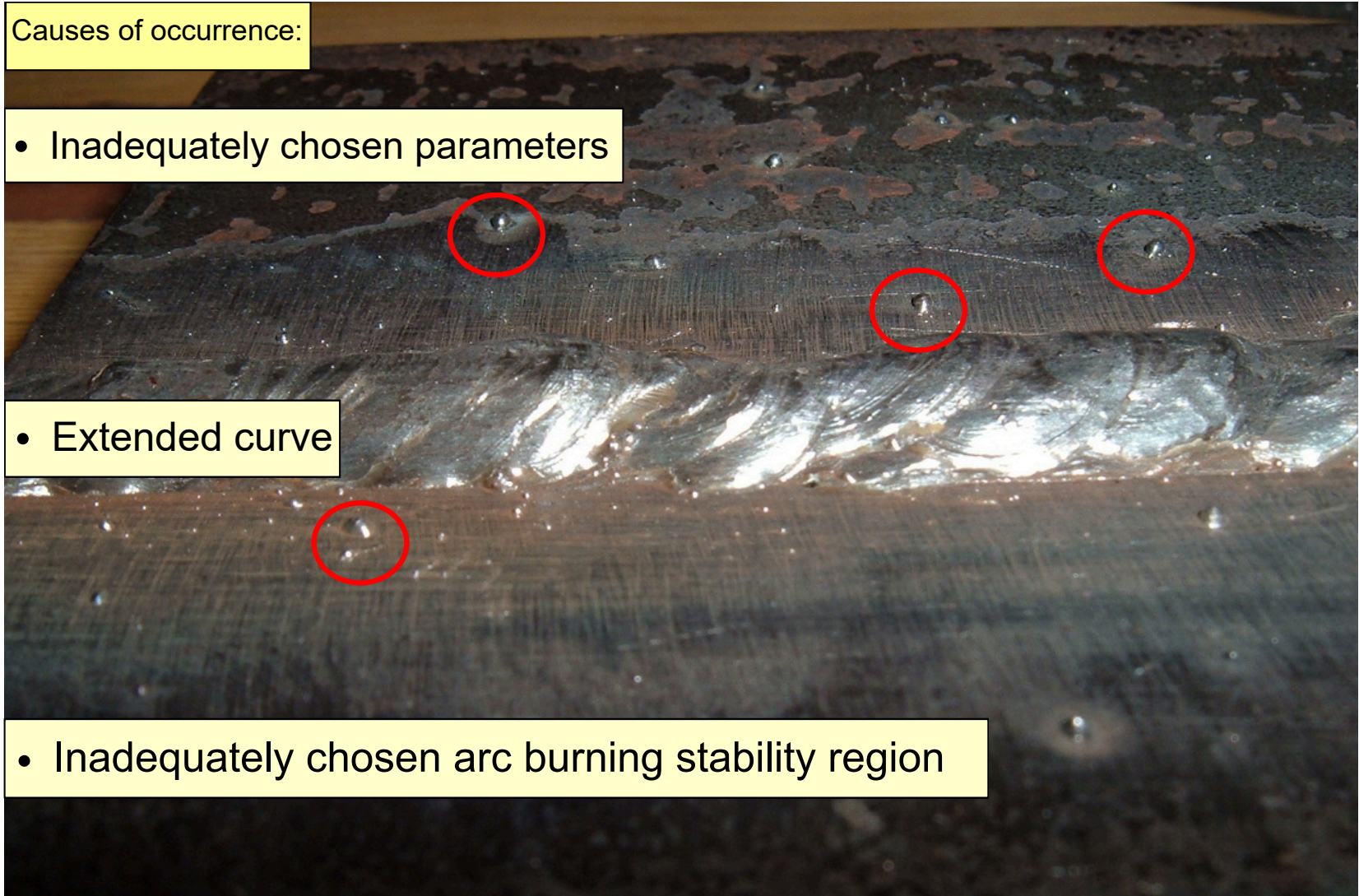
## 602 - metallic spatter adjacent to the weld

Causes of occurrence:

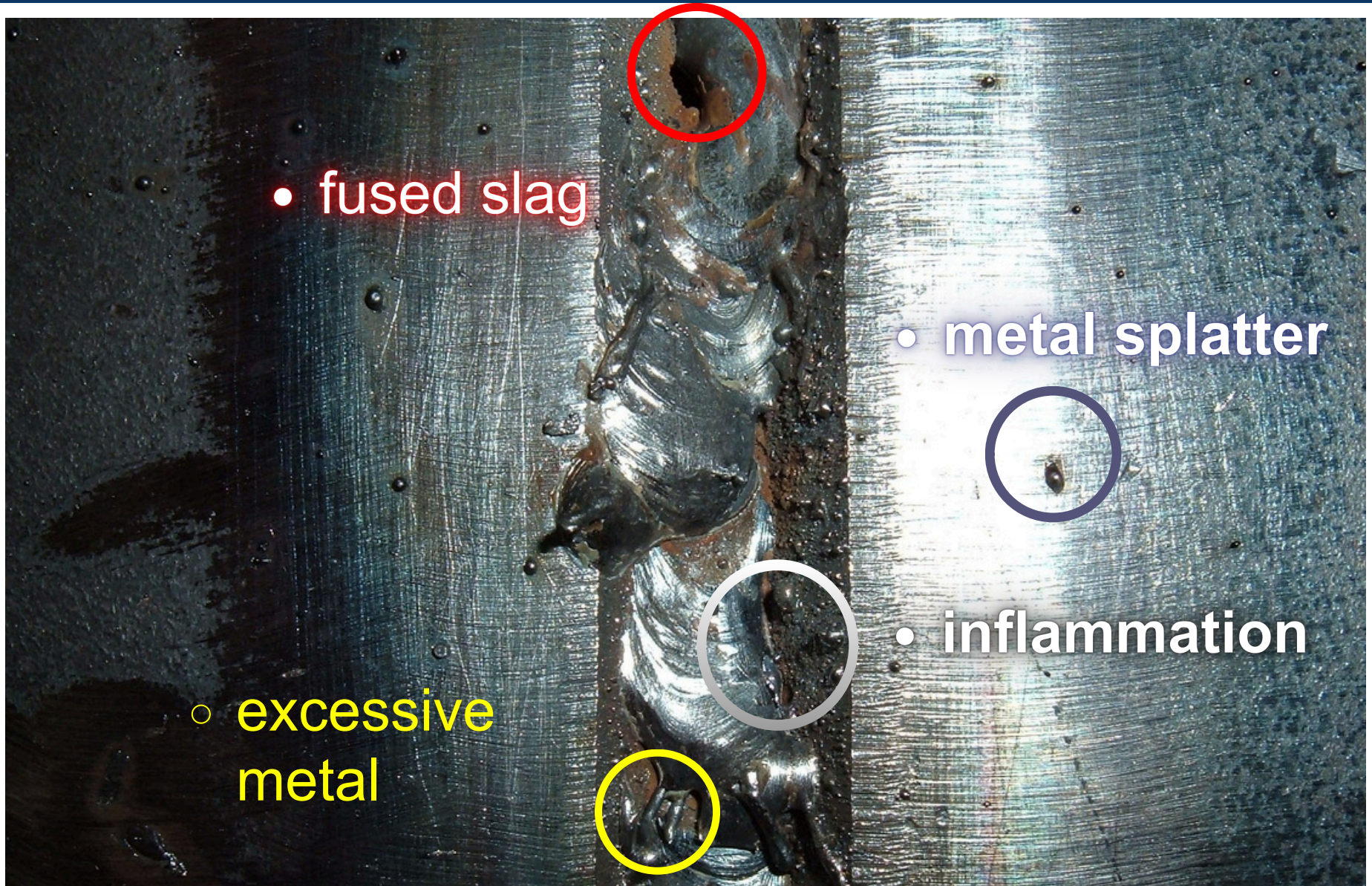
- Inadequately chosen parameters

- Extended curve

- Inadequately chosen arc burning stability region

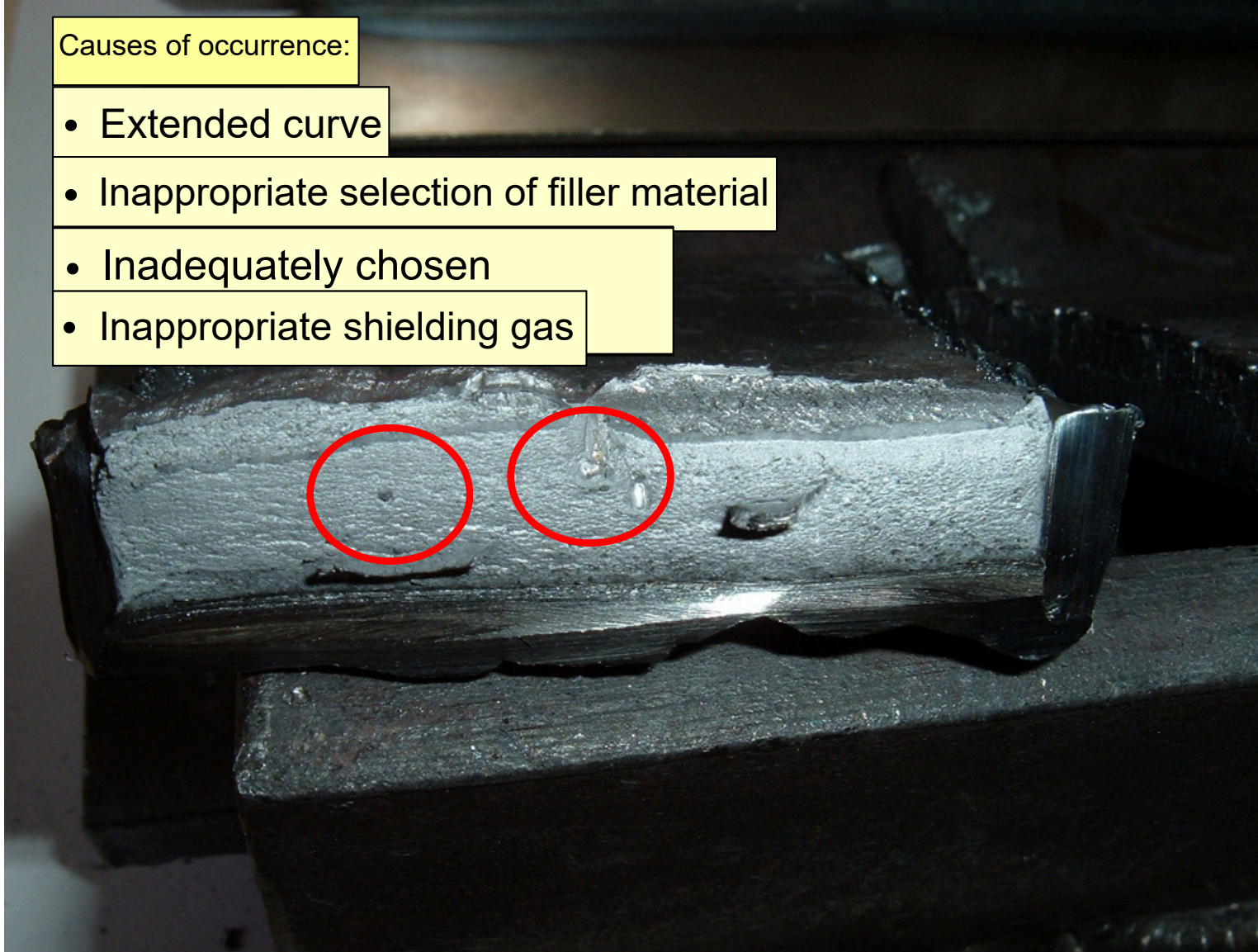


## 602 - metallic spatter adjacent to the weld

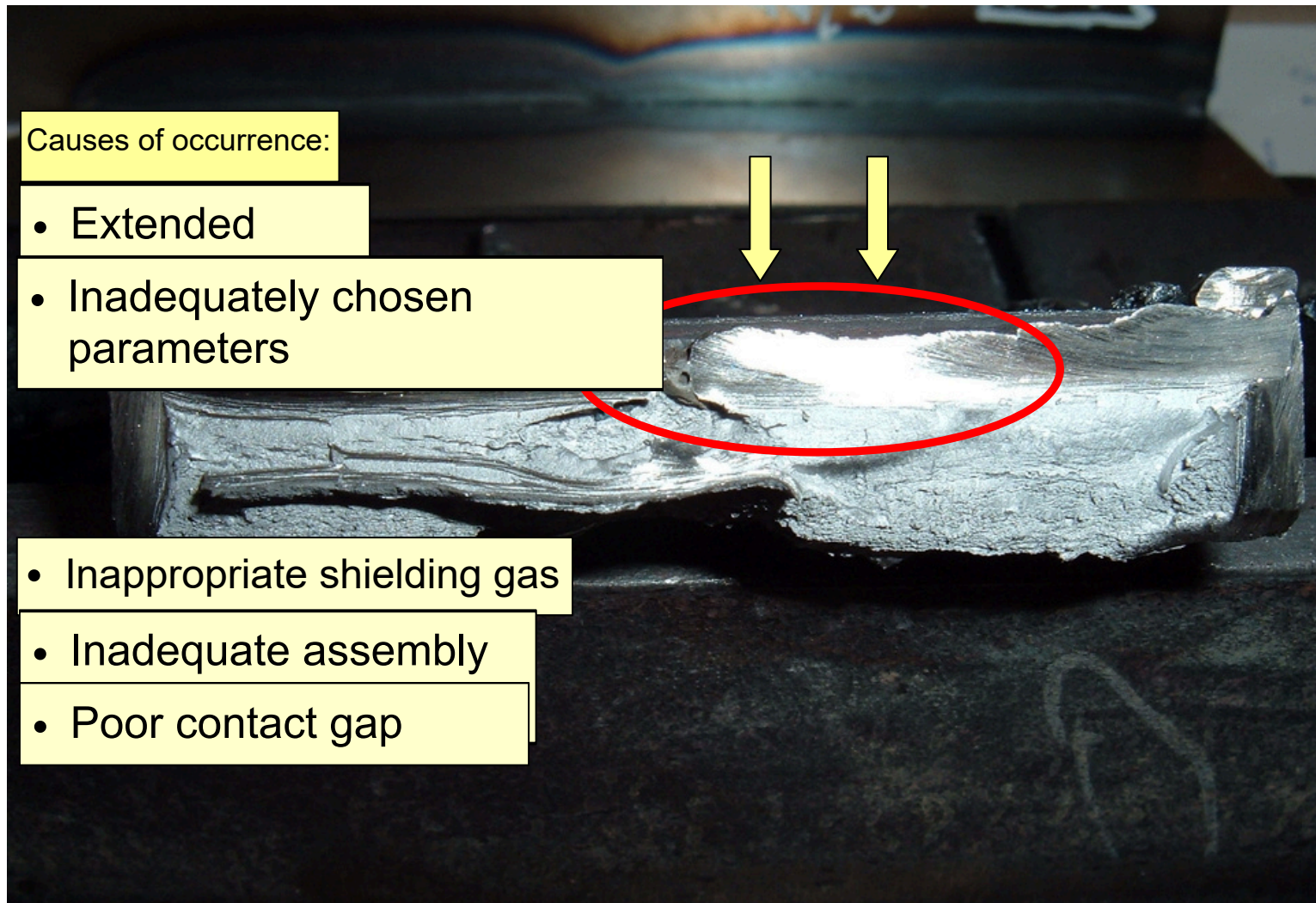


Causes of occurrence:

- Extended curve
- Inappropriate selection of filler material
- Inadequately chosen
- Inappropriate shielding gas



# 401 - metallic spatter adjacent to the weld 2017 - pores



# 401 - cold junction 2017 - pores

Causes of occurrence:

- Extended curve
- Inadequately chosen parameters
- Inappropriate shielding gas
- Inadequate assembly of components
- Poor contact gap

