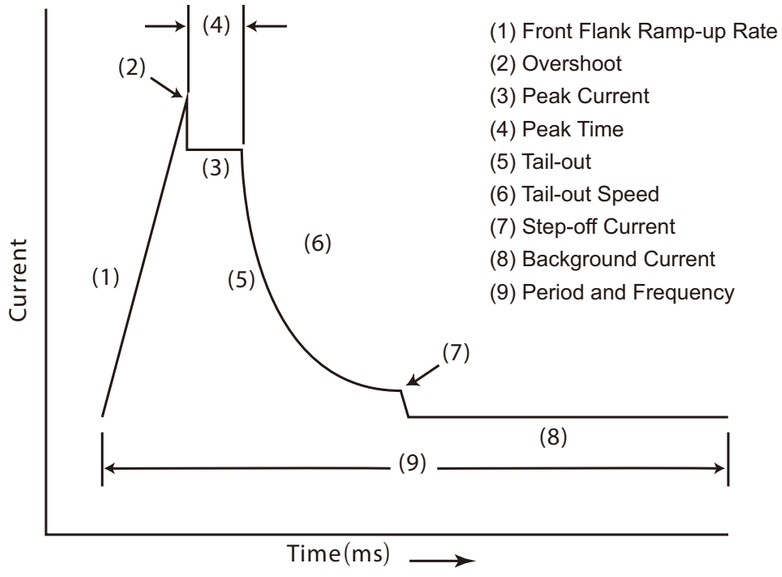
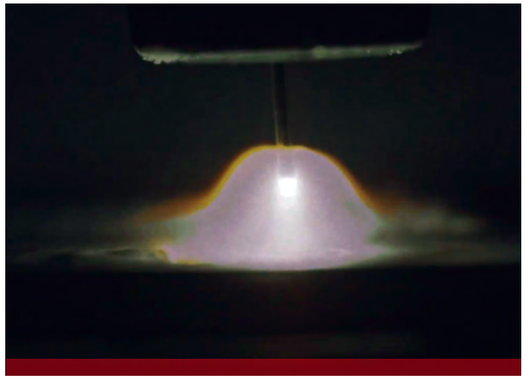
PMIG, Pulse MIG

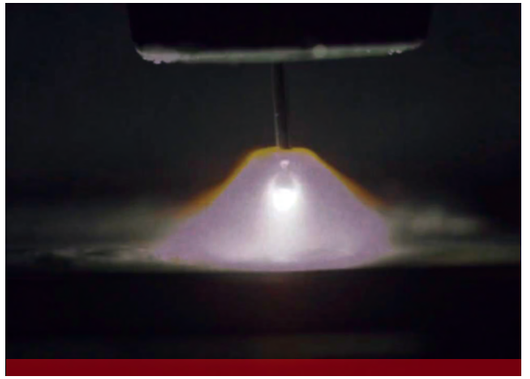
Advantages

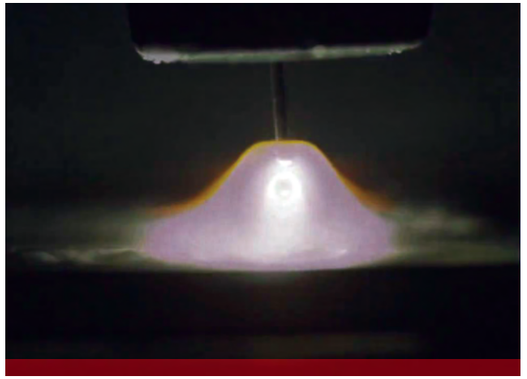
- Absent or very low levels of spatter.
- More resistant to lack of fusion defects than other modes of GMAW metal transfer.
- Excellent weld bead appearance.
- High operator appeal.
- Offers an engineered solution for the control of weld fume generation.
- Reduced levels of heat induced distortion.
- Ability to weld out-of-position.
- Lower hydrogen deposit.
- Reduces the tendency for arc blow.
- Handles poor fit-up.
- High-electrode efficiency of 98%.
- Lends itself to robotic and hard automation applications.

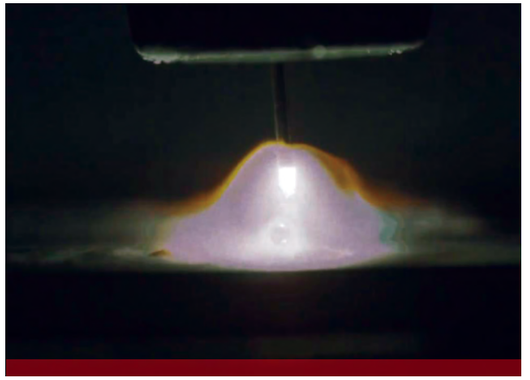
A Single Pulsed Event











The pulsed MIG process works by forming one droplet of molten metal at the end of the electrode per pulse. Then, just the right amount of current is added to push that one droplet across the arc and into the puddle. The transfer of these droplets occurs through the arc, one droplet per pulse.