# **UK SAFETY ALERT**



## **CUTTING DISC FAILURE**

## **Details of Incident**

An employee was very fortunate not to have been more seriously injured whilst cutting some steel, when a 230mm cutting disc being used in a hand held grinder broke away from its centre hub. The disc struck the employee's cheek at high speed, causing cuts and grazes to his face.

## **Key Findings**

- The disc was not purchased by the site, it had been obtained via a contractor. It was only 1.9mm thick and had exceeded the manufacturers warranty expiry date
- The employee was wearing safety goggles, but not a full face visor
- He had received training in the use of abrasive wheels and the work piece was securely clamped

#### **How Could This Incident Have Been Avoided?**

- Arrange for the steel to be pre cut off site
- Use an alternative / better method of cutting
- Ensure discs are in good order, know how they have been used / stored and their expiration date
- Check discs thoroughly for defects before use
- Ensure the rpm rating of the disc is not exceeded
- Avoid the use of 1.9mm thickness discs
- Use cutting discs with great care; the force applied should be minimal and from directly above the cut being made
- Wear a full face visor and goggles

## **Key Review Points**

- Ensure Safe Systems of Work are in place for the use of hand held grinders
- Limit their use to authorised / competent personnel
- Purchase the right discs for the task and store them correctly
- Use the necessary PPE for the task, in this case goggles and a visor



## Look after yourself and each other

Don't let anyone act unsafely, always stop

#### Personal Protective Equipment

Always wear the correct PPE.

#### **Tools and Equipment**

Use the right, well maintained, tools/

#### Safe Systems

Follow safe systems of work, site rules, signage and traffic signals.

