

Spark Plug M12 Heat range cross and Identification table update

How to identify and cross
DENSO Spark Plugs



The DENSO Identification table clarifies the technical appearance like technology, size and measurements of our Spark Plugs. This can be useful when crossing to other Spark Plug producers.

Our Identification table is now updated and we would like to highlight that DENSO has additional information about heat range crossing for M12-size plugs.

Two tables for identification

The DENSO Spark Plug range consists of different ranges and can be divided in OE and IAM Spark Plugs. For identifying these 2 different ranges we have 2 different tables. One is for the OE (Original Equipment) spark plugs and the second is for the IAM upgrade Technology ranges like DENSO-TT, Iridium Power, Iridium Tough and Iridium Racing.



Technical Heat range series; C-range versus similar XE-range.

Since some years DENSO has been using an alternative heat range for some Original Equipment (OE) Spark Plugs which might cause confusion. This heat range applies to M12 size plugs with 9mm ceramic diameter. This size uses a lower heat range number combined with a 'C' instead of the similar XE type.

The C- indicates one heat range lower than the XE-number logic shows, but the real size and heat range is same.

Conclusion

Above information confirms below example which is also displayed in TecDoc.

Iridium TT "IXEH20TT" is the appropriate upgrade alternative to any of the 4 plugs below:

- SC16HR11
- FC16HR-Q8
- FC16HR-CY9
- VFCH16

Important is that the C16 is crossing to XE20.
Then logically the C20 crosses to XE22.

For the correct crossing, please see the DENSO information in TecDoc and then what is mentioned in the technical specs as "Alternative item".

DENSO Heat range series overview: Examples of similar heat range types:

C-type	XE-type	Examples with C-type heat-range series	Examples with XE-type heat-range series	NGK	BOSCH	Champion
C16	XE20	SC16HR11, FC16HR-Q8, VFCH16	FXE20HR11, FXE20HE11, IXEH20TT*	6	7/6	10/9
C20	XE22	SC20HR11, ZC20HPR11	FXE22HR11, DXE22H11C, DXE22HCR11S, VFXEHC22G*, IXEH22TT*	7	5	8/7
C22	XE24	EC22HPR-D7	FXE24HR11, ZXE24HLR7, SXE24HCR8S, ZXE24L-S7, VXEHC24G*	8	4	6/63/61

*) I+V-types refer to the 2nd identification table where the C refers to XEHC meaning 1,5mm shroud

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